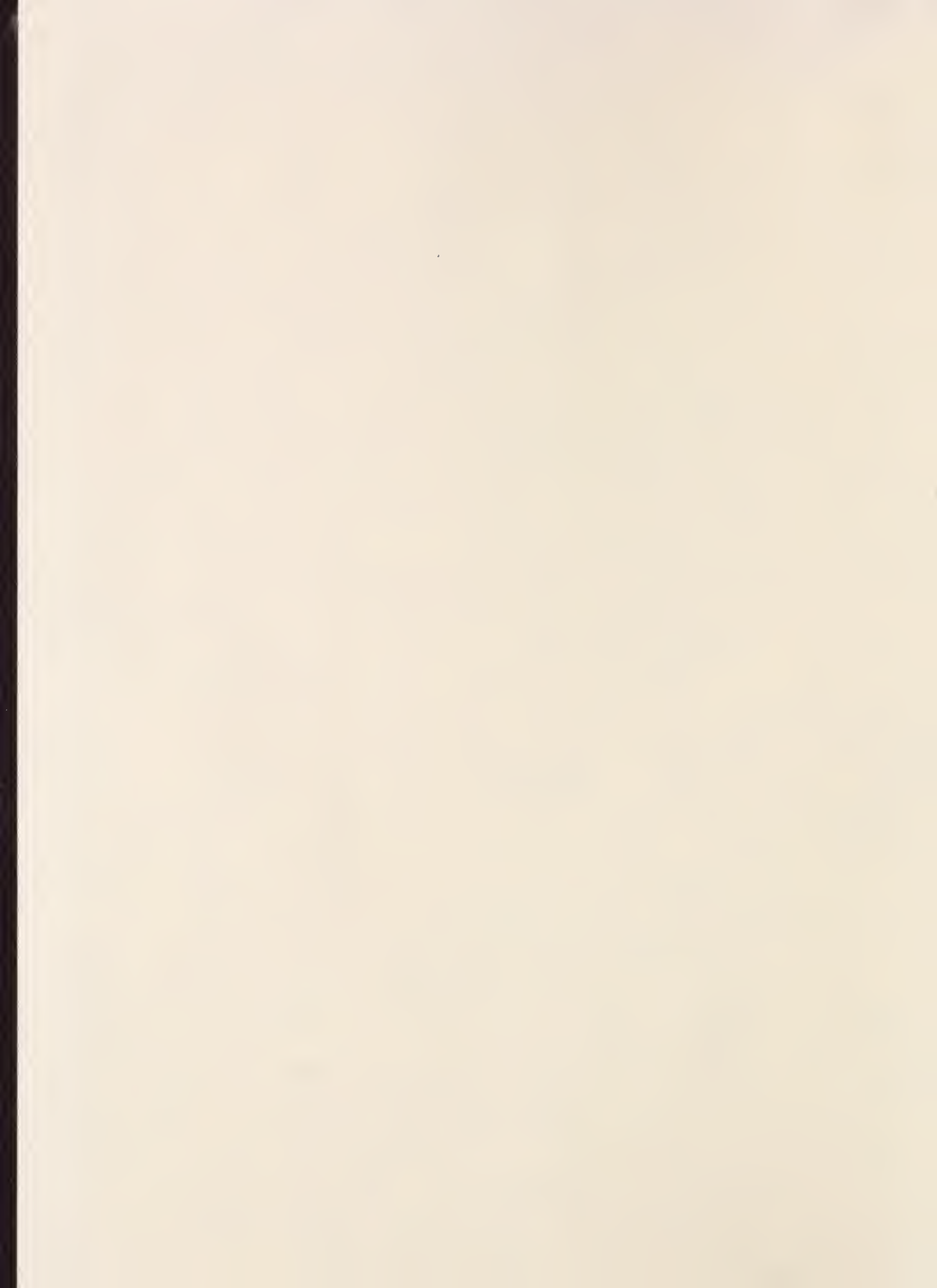






Digitized by the Internet Archive
in 2013



REF

LD

3780

,N3

A12

1982-

1988

C.1



Montclair State College

Upper Montclair, NJ 07043

**Undergraduate Catalog
1982-1984**



Montclair State College at a Glance

Location:

200-acre campus, at the intersection of Valley Road and Normal Avenue, Upper Montclair, New Jersey (Essex County), one mile south of intersection of Valley Road and Route 46. Main entrance on Normal Avenue.

Background:

Established in 1908, and is a state-supported, coeducational, four-year college of liberal arts and sciences. Has offered Master of Arts programs since 1930s.

Enrollment:

About 12,300 undergraduates and 3,567 graduate students in 1981. Students come from all New Jersey counties, from other states, and from foreign countries. About 75 percent of all students commute to campus for classes.

Faculty:

The college has some 484 full-time faculty members. About 72 percent have terminal degrees. Ratio of faculty to students is 1 to 16.

Accreditation:

Fully accredited by the Middle States Association of Colleges and Secondary Schools, and by the National Council for the Accreditation of Teacher Education.

Degrees Offered:

Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, Master of Arts, and Master of Business Administration.

Facilities:

Four major academic buildings, student center building, library, gymnasium, playing fields, administration building, and housing for 2,000 students in dormitories and apartments.

Costs:

Annual tuition and fees (1982-83): \$1,092. Annual room and board: \$2,300.

Financial Aid:

Some form of aid is provided to 65 percent of qualified full-time students. Aid is available as loans, scholarships, grants, and employment.

Montclair State College is an Equal Opportunity/Affirmative Action institution. In compliance with relevant federal and state civil rights legislation, the college does not discriminate on the basis of sex, race, color, religion, national origin, age, or physical capability in the operation of its educational program or activities (admission, access to programs and course offerings, physical education, competitive and intramural athletics, counseling, student and other employment, use of facilities, and college sponsored extracurricular activities.)

Inquiries relating to equal opportunity/affirmative action issues may be directed to the offices of Student Affairs or Equal Opportunity/Affirmative Action.

The Undergraduate Catalog of Montclair State College is published biennially and presents announcements of general information, general academic regulations, and the College's academic program extant at the date of publication. The College reserves the right to change any of its announcements, regulations or requirements at any time without notice or obligation. The Office of Academic Affairs is responsible for the preparation of the content of this publication.

MONTCLAIR STATE COLLEGE

UNDERGRADUATE CATALOG 1982 - 84

ERRATA SHEET

Annual Tuition for 1982 - 83 is \$1200.50

Annual Room and Board is \$3300.00

Admissions phone number changed to 893-4444

Registrar's phone number changed to 893-4376

Resident undergraduate tuition is \$30.00/per cr.

Non-Resident undergraduate tuition is \$50.00/per cr.

Undergraduate Catalog

ADMISSIONS OFFICE

203 College Hall
Upper Montclair, N.J. 07043
(201) 893-5116

FINANCIAL AID OFFICE

311 College Hall
Upper Montclair, N.J. 07043
(201) 893-4461

HOUSING OFFICE

401 Bohn Hall
Upper Montclair, N.J. 07043
(201) 893-4156, 5252

REGISTRAR

204 College Hall
Upper Montclair, N.J. 07043
(201) 893-4340

Statement on the Undergraduate Program

The Board of Trustees of Montclair State College reaffirms its belief that the liberal arts and sciences form the essential basis of an undergraduate program of higher education.

In an era of decreasing resources, diminished public support, and increased popular interest in vocationalism, there are strong pressures to succumb to temporary concerns, and in doing so to lose sight of the enduring and essential purpose of a college education. There are also economic and political forces which, if not constrained by thoughtful response, threaten the integrity of academic processes and the quality of academic standards of institutions of higher education everywhere.

The Board of MSC believes that the College has the special purpose of contributing to, critically examining, preserving and transmitting the culture of our society to succeeding generations, and that the protection of this purpose is the public trust for which we are primarily responsible. We believe that the progress of the College towards this goal has been exemplary, and in particular we applaud the steps already taken by the faculty and administration to maintain and enhance these values. Consistent with the policy and planning function of the Board, however, we believe that faculty and administration efforts might be enhanced by an understanding of what the Board sets forth as a vision of the undergraduate program by 1990. By that time, based upon the work of the faculty and administration, we hope to see:

1. a rigorous and comprehensive program of general education required of all students which includes not only advanced learning skills and preparation for effective citizenship, but which also fosters an appreciation of a share human heritage leading to the enhancement of the quality of both personal and community life;
2. an enrollment reflecting a balance between those students majoring in liberal arts programs, and those in professional and career programs which in addition to their own strengths, are soundly rooted in and related to the strengths of our liberal arts departments;
3. support programs which assist underprepared students who share our goals to meet the demanding standards of which we think they are capable if suitably challenged, excited and educated;
4. ongoing processes of program review and evaluation in which the joint efforts of faculty, administration and Board ensure maintenance of the highest standards of quality;
5. a diverse student body reflecting different cultural and social backgrounds, but united by a common commitment to the academic values for which the College stands;
6. programs which strengthen the efforts of an able and dedicated faculty and which support the scholar's continuing need for intellectual and personal renewal.

In setting these general goals, the Board recognizes the difficult economic and political environment likely to face higher education in the future, and that many other institutions have chosen to confront these challenges in a manner different from our own. We believe, however, that the need to create a distinctive mission and climate for the College and to prepare students fully for an uncertain but clearly difficult future requires us to make this commitment.

It is the Board's intent to view its future consideration of new policies and programs within the context of this statement, and to have prepared for campus discussion a brief annual report concerning activities and progress in each of the six areas.



Table of Contents

ACADEMIC CALENDAR	iv
ABOUT THE COLLEGE	1
DEGREE PROGRAMS	2
STUDENT AFFAIRS AND ACTIVITIES	4
ADMISSIONS	5
TUITION AND FEES	7
FINANCIAL AID	8
INTRA-COLLEGIATE PROGRAMS	9
SERVICES AND FACILITIES	10
ACADEMIC STANDARDS AND PROCEDURES	13
REQUIREMENTS FOR UNDERGRADUATE DEGREE	18
ACADEMIC PROGRAMS	
Accounting, Law and Taxation	21
Anthropology	22
Biology	25
Business Education and Office Systems Administration	29
Chemistry	34
Classics	37
Communication Sciences and Disorders	40
Counseling, Human Services, and Guidance	43
Curriculum and Teaching	44
Economics	46
Educational Foundations	49
Educational Leadership	50
English	52
Environmental, Urban and Geographic Studies	58
Finance and Quantitative Methods	61
Fine Arts	63
French	76
German and Russian	80
Health Professions	83
History	87
Home Economics	91
Industrial Education and Technology	97
Linguistics	102
Management	105
Marketing	107
Mathematics and Computer Science	109
Music	113
Philosophy and Religion	124
Physical Education	129
Physics/Geoscience	135
Political Science	142
Psychology	144
Recreation Professions	149
School of Conservation	42
Sociology	153
Spanish/Italian	157
Speech and Theater	164
Special Programs	175
ADMINISTRATION AND FACULTY	179
INDEX	
DIRECTIONS TO CAMPUS	

Academic Calendar 1982-84

Fall Semester 1982

August 30, 31,
September 1.....Registration/Orientation.
August 30, 31.....Evening Registration.
September 4, 5, 6.....Labor Day Holiday Weekend.
September 2, 3.....Classes will meet until the regular
close of the course day on September
3.
September 7-
November 24.....Classes. Classes will meet until the
regular close of the course day on
November 24.
November 25-28.....Thanksgiving Holiday.
November 29-
December 16.....Classes.
December 17-23.....Examination Period.
December 24-
January 2.....Christmas Holiday.

Winter Session 1983

December 28.....Registration (Late).
January 3-21.....Classes.

Spring Semester 1983

January 18, 19, 20.....Registration/Orientation.
January 18, 19.....Evening Registration. If the college
is closed because of inclement
weather during this period, the
Registration Schedule moves forward
by one day.
January 24-March 27.....Classes.
March 28-April 3.....Spring Recess.
April 4-May 17.....Classes.
May 18-24.....Examination Period.
May 25.....Commencement.
May 26.....Rain Date.

Summer Session 1983

May 31-June 10.....Pre-Session.
June 4.....Saturday Classes.
June 6, 7.....Registration.
June 13-August 4.....Eight-Week Evening Classes.
June 27-August 5.....Six-Week Classes.
July 5.....Holiday — No Classes.
August 8-19.....Post-Session.

Fall Semester 1983

August 29, 30, 31.....Registration/Orientation.
August 29, 30.....Evening Registration.
September 1.....Classes Begin.
September 1, 2.....Classes. Classes will meet until the
regular close of the course day,
September 2.
September 3, 4, 5.....No Classes. Labor Day Holiday.
September 6-
November 23.....Classes. Classes will meet until the
regular close of the course day,
November 23.
November 24-27.....Thanksgiving Holiday.
November 28-
December 16.....Classes.
December 17-23.....Examination Period.
December 24-January 2.....Christmas Holiday.

Winter Session 1984

December 28.....Registration (Late).
January 3-20.....Classes.

Spring Semester 1984

January 17, 18, 19.....Registration.
January 17, 18.....Evening Registration. If the college
is closed because of inclement
weather during this period, the
Registration Schedule moves forward
by one day.
January 23-March 15.....Classes.
March 16-22.....Spring Recess.
March 23-May 14.....Classes.
May 15-21.....Examination Period.
May 23.....Commencement.

Summer Session 1984

May 29-June 8.....Pre-Session Classes (Steam Shut
Down)
June 4, 5.....Registration.
June 11-August 2.....Eight-Week Evening Classes
June 25-August 3.....Six-Week Day Classes
July 4.....Holiday — No Classes
August 6-17.....Post-Session Classes.

About the College

Life is a challenge. Montclair State College helps students to meet the challenge by encouraging them to become more creative, observant and inquisitive. The academic and career counselors give advice in choosing a program and major that is satisfying, helps meet degree requirements while exploring special interests, and aids in defining and implementing career goals. The student body is composed of men and women from a variety of backgrounds; it is easy to meet new people, make new friends, share new dreams. Accessibility to New York City permits students to take advantage of many unique cultural and educational opportunities — museums, plays, concerts — as well as enabling the college to provide a forum in which well-known artists can teach and perform.

Montclair State College's faculty-student ratio is one to sixteen. While some courses are taught in larger groups, most classes have a maximum of twenty-five students. The faculty members teach both graduate and undergraduate courses, with some departments employing graduate assistants. Approximately 70% of the faculty has doctorates or terminal degrees appropriate to their disciplines. All faculty members let students know when they will be available for extra help.

Montclair State College has a current enrollment of approximately 13,000 students, almost equally divided between undergraduate and graduate programs. There are 9,000 women and 6,000 men attending. Although most students are from New Jersey, some come from other states as well as from other countries. About 80% of them commute.

In order to challenge the mind and stimulate interests, the College has a broad range of arts, science and professional programs. Currently, four degrees — Bachelor of Arts, Science, Fine Arts, and Music — are offered on the undergraduate level; with graduate programs leading to Master of Arts and Master of Business Administration. The academic programs include more than forty areas of study as well as several interdisciplinary academic programs. The teacher training programs are designed for Secondary School Certification; however, some subject areas do offer kindergarten through twelfth grade certification.

The suburban location, combined with the proximity to New York City, helps to provide a wide variety of cultural and educational opportunities in a friendly, comfortable atmosphere. In fact, the New Jersey Department of Higher Education has designated Montclair State College as a center for the fine and performing arts in northern New Jersey. New additions and services, which include the Student Center Annex, dormitories and an apartment complex, are all designed to meet students' needs. Shuttle buses take students from the parking lots to the main campus area.

Because it is a state supported institution, Montclair State can afford to keep tuition and fees low. Financial aid is available to qualified students in the form of loans, grants, and/or employment. Amounts are determined by need and the funds available.

Accreditation and Memberships

The College is fully accredited by the Middle States Association of Colleges and Secondary Schools. In addition, the National Council for the Accreditation of Teacher Education has granted full accreditation for the preparation of elementary and secondary school teachers as well as school service personnel.

The College is a member of the Council of Graduate Schools in the United States, the American Association of State Colleges and Universities, the American Council of Education, the New Jersey Association of Colleges and Universities and the American Association of Colleges for Teacher Education. Women graduates are accepted for membership in the American Association of University Women.

History

Founded in 1908 as a Normal school, the College began immediately to establish a reputation for academic excellence. When it became Montclair State Teachers College, its purpose was exclusively to prepare secondary school teachers. Later, part-time and extension courses were added and the summer session began. The New Jersey State Board of Education then empowered the College to give graduate courses and grant the master's degree. Eventually the College merged with Panzer College of Physical Education and Health and began to offer a new major, Physical Education and Health.

In 1958, the official name was changed to Montclair State College and the academic thrust was directed more strongly toward arts and sciences programs. Since then, the College has placed increasing emphasis on the education of future scholars, government and business administrators and managers, lawyers, physicians, dentists, scientists and researchers, journalists and writers. At the same time, it has maintained its traditional excellence in the preparation of secondary school teachers.

The New Jersey Higher Education Act of 1966 transferred the College's governance from the State Department of Education to the College's own board of trustees. The board consists of nine citizens of New Jersey, appointed by the State Board of Higher Education and confirmed by the governor. The president of the College is a member, ex officio. Faculty and student representatives are elected by their peers to meet with the board. This change in governance gave the College increased independence in the management of its program.

Financial Support

The College derives its primary income from the State of New Jersey, supplemented by grants from government agencies and private foundations, and by gifts from friends, alumni, corporations and other private philanthropic sources.

Goals

Since the establishment of its own board of trustees, the College's programs have constantly expanded. Today, as a result of these extensive programs on graduate and undergraduate levels, the College is an institution offering a broad range of arts and sciences as well as professional programs to students with many varying needs, interests and career aims.

Throughout its existence, Montclair State College has been loyal to the basic needs of higher education by recruiting a scholarly, dedicated faculty; selecting earnest students of high academic standing; devising and operating as full and thorough a curriculum as possible; providing extracurricular experiences to extend and enrich the cultural horizons of the College community; keeping alert for opportunities to make the educational process increasingly effective and emphasizing the importance of the individual in an expanding society.

Degree Programs

School of Business Administration

Dean: Suresh A. Desai, Ph.D.

Assistant Dean: Michael A. Puglisi, M.A.

The undergraduate programs of the School of Business Administration seek to develop the student's abilities to assume the responsibilities of business management. The emphasis is on developing skills and attitudes of mind that will enable the student to operate effectively as a manager in this fast changing, complex world.

The programs provide:

- a broad training in liberal arts and sciences;
- an understanding of the functional areas of business and of the disciplines relevant to the study of business management;
- specialization in an area of concentration.

Departments within the school are:

Business Administration BS, MBA
Business Education BS, MA
Distributive Education BS, MA
Economics BA, MA
in Social Science (Economics Concentration)

School of Fine and Performing Arts

Dean: Donald Mintz, Ph.D.

Director, Cultural Programming: Harry R. Rozenzweig

The School of Fine and Performing Arts, designated a "comprehensive center of influence in the creative and performing arts" by the Board of Higher Education, offers preparation for careers in its disciplines, in public school teaching and in public service and managerial professions associated with the arts. Since the School believes that the arts are an essential part of a full life, it offers a substantial number of non-technical courses open to all. Separately and together, the departments offer courses that recognize significant contemporary developments like the increased role of technology in artistic enterprise, the growth of film and television as artistic media, the tendency to blur the boundaries between conventional artistic disciplines, and the serious challenges to traditional notions of what art is.

Departments within the school are:

Fine/Arts BA, BFA, MA
Music BA, BMus, MA
Speech/Theater BA, BFA, MA

School of Humanities and Social Sciences

Dean: Philip S. Cohen, Ph.D.

Although they offer several programs with specific career objectives, the departments that comprise the School of Humanities and Social Sciences have traditionally been concerned with the activities and issues central to the liberal arts and general education.

Each department offers at least one major program leading to the Bachelor of Arts degree. Teacher certification is available in appropriate fields.

The School continuously examines its curriculum to strengthen current programs and to reflect new directions. It also provides numerous opportunities for internship training in industrial, clinical, governmental, and educational settings, including the Communications Disorders Center and the Psychoeducational Center located on campus. Interdisciplinary and applied minor programs are encouraged, whereby students may obtain a broad liberal education along with specific career skills.

In its brief history, the School of Humanities and Social Sciences has established a unique identity based upon diversity within a unified, organic whole. Its broad spectrum of departments and programs embraces a variety of methods, content and organization, each bearing a special relationship to each other.

Departments within the school are:

Anthropology	BA
Classics	BA
Communication Sciences	
Disorders	BA, MA
English	BA, MA
Environmental, Urban and	
Geographic Sciences	BA, MA
French	BA, MA
German/Slavic	BA
History	BA
Linguistics	BA
Philosophy and Religion	BA
Political Science	BA
Psychology	BA, MA
Sociology	BA
Spanish/Italian	BA

School of Mathematical and Natural Sciences

Dean: Richard A. Lynde, Ph.D.

Programs offered by the School are designed to achieve two instructional goals. The first is to allow students of the natural and mathematical sciences an opportunity to obtain a significant depth of knowledge within a discipline, and to interpret the process by which knowledge and understanding of the physical world are derived from experimental methods. The second is the expansion of science and its significance to the college community. The constantly evolving nature of the math-science disciplines stimulates continuing curriculum evaluation and revision along with establishment of new programs.

Separately or in combination, the programs provide appropriate preparation for professional training (primarily in medicine and dentistry) and for graduate work and employment in a wide range of math-science related fields. In addition, the School offers teacher-preparation programs leading to certification in the biological or physical sciences or mathematics.

A special asset of the School is its location in northern New Jersey, which has one of the largest concentrations of scientific research organizations in the country. Liaison with industry and scientific professional organizations in the area provides the School

with unique resources and opportunities for study and research.
Degree programs within the school are

Biology	BS, MA
Chemistry	BS, MA
Computer Sciences	BS, MA
Geoscience	BS, MA
Mathematics	BS, MA
Physics	BS

School of Professional Studies

Dean: Nicholas M. Michelli, Ed.D.

The School of Professional Studies offers a wide variety of programs leading to professional careers in private industry, government agencies, non-profit organizations, and public and non-public schools. All departments offer graduate programs.

The school is responsible for the coordination of the college wide teacher education program. In addition, the New Jersey School of Conservation, one of the largest environmental and outdoor education centers in the world, is part of the School of Professional Studies.

Departments within the school are:

Counseling, Human Services and
Guidance
Curriculum and Teaching
Educational Foundations
Educational Leadership
Health Professions
Home Economics
Industrial Studies
N.J. School of Conservation
Physical Education, Recreation and
Leisure Studies

Part-Time Bachelor's Degree Programs

These undergraduate programs are designed for qualified graduates of accredited high schools, students who have earned the New Jersey High School Equivalency Certificate or qualified transfer students from other colleges who are interested in college study on a part-time basis. Classes are held in the late afternoon and evening during the academic year (September-May) and in the daytime, later afternoon or evening during the summer sessions (June-August).

Majors Available Part-Time

Allied Health*
Anthropology
Business Administration
Communication Sciences and
Disorders
Computer Science
Economics
English
Environmental, Geographic and
Urban Studies
History
Home Economics
Industrial Education
Mathematics
Office Systems Administration

**Political Science
Psychology
Sociology
Transcultural Studies**

For detailed information see Academic Regulations and Procedures.

*Limited to transfers from medical related A.A. and A.A.S. programs only.

Summer Sessions

The Summer Sessions have been providing students with courses and special programs since their inception in 1927. Full-time and part-time undergraduates and graduates can take available courses at a variety of times: during a two-week pre-summer or post-summer session, an eight-week evening session, or a six-week day session.

MSC undergraduates wishing to attend Summer Sessions may enroll for a maximum of 9 semester hours. Forms are available through the Registrar's Office.

Those eligible for admission to Summer Sessions are: undergraduates from MSC and other institutions (with permission), regular evening undergraduates, candidates for Master's degrees, college graduates seeking further study or teacher certification, and teachers and administrators seeking advanced certificates or further study. For further details see Academic Regulations and Procedures.

Undergraduates in Graduate Programs

Seniors may apply for admission to graduate programs during the semester before graduation. Those planning to matriculate in graduate programs at the College should take the aptitude section of the Graduate Record Examination. For further information see an advisor or counselor.



Student Affairs and Activities

The philosophy of the Student Activities Office is to create opportunities for favorable social development. The following organizations represent the formal structure supporting that philosophy.

Student Government Association Inc. (SGA)

All undergraduates are members of the Student Government Association, a one million dollar autonomous corporation. The SGA provides free legal aid, drop-in center, pharmacy program, and other services through fees paid by all full-time and part-time undergraduates.

The legislative branch is composed of student representatives from each school and academic department. The executive branch consists of the president, vice-president, treasurer, and secretary.

BLACK STUDENT COOPERATIVE UNION (BSCU)

BSCU is dedicated and willing to help others learn more about the culture of Black people and to help black men and women develop pride and awareness in themselves and their communities. Activities include films, lectures, social events, and Kwanza.

CLASS ONE CONCERTS

Class One Concerts gives the college community opportunities to enjoy on-campus concerts by various popular groups and artists. Members can learn all phases of concert production, and expand their awareness of professional music presentation.

COLLEGE LIFE UNION BOARD (CLUB)

The College Life Union Board coordinates social, cultural, and recreational student programs. Movies, trips, beer blasts, Catacombs, and other activities are planned each semester. Annual CLUB events include Winter and Spring Balls, and Spring Day.

COUNCIL ON INTERNATIONAL AND NATIONAL AFFAIRS (CINA)

CINA examines national and international cultural and political events and issues. Lectures, seminars, films, trips, and programs for UNICEF are planned and presented to the college community.

HUMAN RELATIONS ORGANIZATION (HRO)

The Human Relations Organization serves MSC students with training sessions in group dynamics and psychological development. An HRO weekend is held twice a year at a local camp site for nominal cost. HRO also sponsors on-campus seminars and group interaction during fall and spring semesters.

LA CAMPANA

The College yearbook, La Campana, is a yearly reflection of campus activities and concerns. Students interested in photography and the graphic arts are encouraged to join.

LATIN AMERICAN STUDENT ORGANIZATION (LASO)

LASO gives MSC students an opportunity to explore Latin-American culture, music, art, and literature. Activities include dances, trips, Latin Week, and A Night in the Caribbean.

THE MONTCLARION

The weekly student-run newspaper keeps the college community abreast of campus news, local events, and happenings at other colleges. Members can gain journalistic experience in news, feature, and sports writing, as well as copy editing, layout, typesetting, photojournalism, circulation, and advertising. All undergraduates are eligible for staff positions.

PLAYERS

Players is a theater organization which gives students the opportunity to participate in every phase of play production. Three full-scale shows are presented each year. Players also sponsors theater trips to New York City, and workshops given by guest artists.

QUARTERLY

Quarterly, the literature and art magazine, seeks original material for publication each semester. It offers students a chance to express and share their individuality with the college community.

STUDENT INTRAMURAL AND LEISURE COUNCIL (SILC)

SILC has the unique distinction of being one of the country's few student controlled intramural programs. The day-to-day programming offered by SILC includes leagues for men and women in football, basketball, softball, volleyball, tennis, and bowling. It also sponsors badminton, water polo, and pinochle, and special activities such as trips to professional sporting events and a night of roller skating.

WMSC — 90.3 FM

WMSC, "the sound choice," is the student owned and operated radio station. It broadcasts out to northeastern New Jersey seven days a week from 6 a.m. to 1 a.m., featuring a wide selection of music and entertainment programming, news and specials. WMSC provides experience for students interested in learning radio production and management, newscasting and DJing. Any enrolled student can join WMSC.

The Student Government charters many other clubs, fraternities, sororities, service, and professional organizations. The Student Government Office can provide information about these organizations.

Admissions

Requests for application forms and inquiries concerning admission should be addressed to: Director of Admissions, Montclair State College, Upper Montclair, New Jersey 07043. Completed applications should be returned to this address accompanied by a \$10.00 non-refundable fee.

Decisions are announced on a rolling basis until all spaces are filled.

Accepted full-time students are required to pay a non-refundable \$50 fee by May 1 to hold their places in the class. All admissions are made without regard to an applicant's financial circumstances, sex, race, age, religion, national origin or physical handicap.

Admission Requirements

1. A student must send the results of the Scholastic Aptitude Test (S.A.T.) scores. They should preferably be from the November or December tests taken in the senior year but junior-year results are accepted. No tests can be accepted beyond February of the senior year in high school.
2. The student must have a certificate of graduation from an approved secondary school. A High School Equivalency Certificate is acceptable. The high school transcript must show at least 16 high school subject units. Of them, 14 must be college preparatory subjects. These are the minimum units a student must complete:

English	4
American History, Problems of Democracy	2
Mathematics*	2
Science	2
Foreign Languages.....	2
Electives in Social Studies, Science, Math, or Foreign Languages	2
Free Electives	2
Total	16

*More than two years of Math are necessary for admission to Business, Science, Math, or Computer Science majors.

3. It is expected that if a student chooses a specialized area of study at Montclair State, they will have completed preparation for that area in high school.
4. The college charges all applicants a \$10 application fee. If a student is unable to make this payment, it is suggested that he or she talk to a high school guidance counselor about it.

Admission Calendar for Freshman Candidates — Regular Decision

	January	September
	Admission	Admission
Receipt of Application	November 1	March 1
Receipt of Supporting Documents.....	November 10	March 15
Rolling Decision to	November 15	April 15
S.A.T. scores required	Yes	Yes
Receipt of non-refundable deposit.....	December 1	May 1

Transfer Admission Process

Transfer students may enroll for either the September or January semesters. For those interested in transferring to Montclair State, the procedure is:

1. A student must be in good standing at the college from which he or she wants to transfer. Their cumulative grade point average should be at least a "C" from all colleges attended.
2. File an application with Montclair State, enclosing a check or money order for \$10.
3. Have the transcripts of high school and all previous college records sent to the College.
4. Make an appointment for a departmental interview if one is requested.
5. Be aware of the calendar for Full-time transfer candidates.

Admission Calendar for Full-time Transfer Candidates

	September	January
Receipt of Application	May 1	November 1
Receipt of Supporting Documents.....	May 20	November 10
Rolling Decision to:	June 1	November 15
S.A.T. Scores Required	No	No

Basic Skills

The College expects all students to demonstrate proficiency in writing, reading, mathematics, and speech. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State College will be assigned a test date and registration will not be completed for entering freshman students until the Basic Skills test scores are in. Developmental courses in reading, writing, and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT. Students are expected to take the required developmental courses during their first semester at MSC and must satisfactorily complete these courses during the freshman year. Students may consult the Basic Skills Office for a fuller description of the program.

Educational Opportunity Fund Admissions

The Educational Opportunity Fund (E.O.F.) Program is designed to recruit and admit disadvantaged students, in accordance with the provisions of the Educational Opportunity Fund Act of 1968. Academic support, financial aid and counseling are provided to assist students in adjusting to college life. Admission to the E.O.F. Program is based upon financial need and the potential to do college work, as shown through traditional and non-traditional indicators. Candidates who accept admission to the E.O.F. Program are required to attend a pre-freshman six week summer program.

Applications should be filed in the Office of Admissions before March 1 of the year in which entrance is requested.

Foreign Student Admission

Students from foreign countries must complete an application for admission through the Office of Admissions.

Students from non-English speaking countries are required to submit scores from the Test of English as a Foreign Language. Since the 1-20 form can be granted only to accepted full-time students, candidates from foreign countries should be aware that they must apply for full-time rather than part-time admission.

Second Baccalaureate Degree

Applicants for a second baccalaureate degree must have an earned baccalaureate degree from a regionally accredited institution, and have a grade point average of at least 2.50. Second degree candidates are accepted on a space available basis as determined by the appropriate department.

Students accepted for this program register as undergraduates and are subject to the rules and regulations affecting undergraduates.

The candidate must fulfill all requirements of the degree major and complete a minimum of 32 semester hours in residence.

Part-Time Admission

Part-time students are admitted in February and September if applications are complete before the preceding December 1 or August 1. Part-time students may take a maximum of 9 semester hours per semester in late afternoon and evening classes. They may matriculate in 1 of 18 different majors by meeting the same standards and test requirements as full-time students. Provisional matriculation is possible with lesser credentials and without SAT scores.



Tuition and Fees

In order to qualify for the in-state tuition rate, the student, parent(s), or guardian(s) upon whom the student is financially dependent must have lived within the State of New Jersey for a continuous period of one year immediately prior to enrollment. (N.J.S.A. 18:62) All foreign exchange students are considered as non-residents for tuition purposes, regardless of where they reside while attending MSC. Any questions concerning residency status should be directed to the Business Office.

Tuition and Fees are subject to change at any time by action of the Board of Higher Education, State of New Jersey.

Tuition

Undergraduate:

resident	\$25.00 per credit
non-resident.....	\$45.00 per credit

Fees

General Service Fee, paid each registration.....	\$1.50 per s.h.
Student Building Fee, paid each registration.....	\$4.70 per s.h. (MAX: \$46.20 (per registration))
Student Government Association Fee	\$2.00 per s.h. (MAX: \$24.00 (per registration))
Athletic Fee (full-time undergraduates)	\$10.00 per semester

Special Fees

Late Registration Fee: for students whose initial registration for the semester term is during late registration	\$15.00
Late Payment and/or Dishonored Check Fee	\$15.00
Parking Fee	\$10.00 per yr.
I.D. Card Replacement Fee (lost card)	\$5.00
Library Fines: overdue books, periodicals, etc.	\$.05 per day
Transcript Fee	\$2.00 per copy

Academic Special Fees

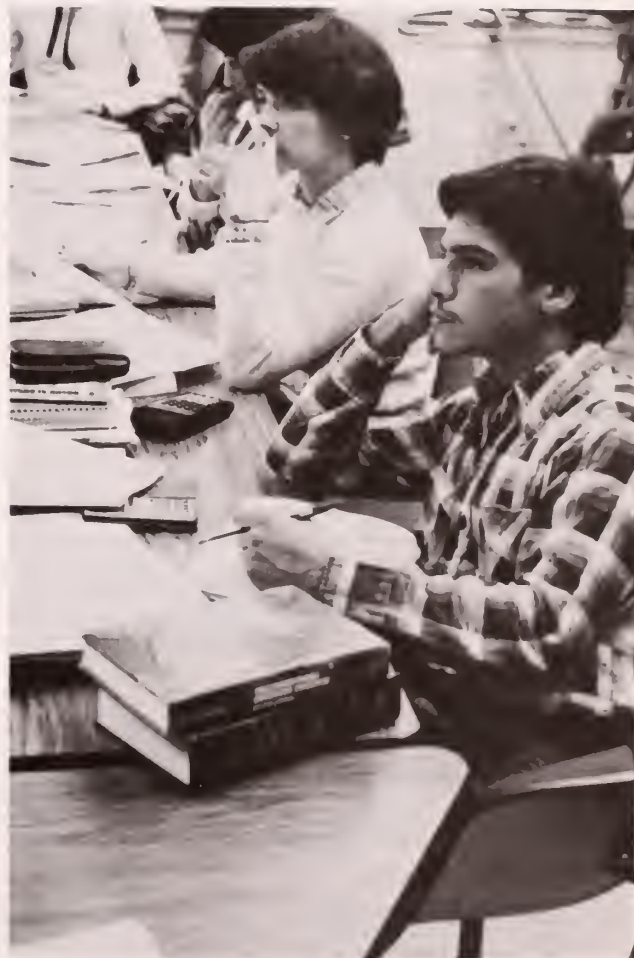
Student Teaching Fee	\$60.00
Music Fees: Part-time and graduate. Students registering for applied music courses pay tuition and fees, plus the music fee as listed.	
1 semester hour (15 1/2 hr. lessons)	\$120.00
2 semester hours (15 lessons)	225.00
3 semester hours (15 lessons)	190.00
4 semester hours (15 lessons)	155.00
5 semester hours (15 lessons)	120.00
6 semester hours (15 lessons)	85.00

1. Tuition and fees are refunded in full if classes are discontinued by the college.

Per Cent Refunded

2. Withdrawal before course begins.....100%
3. Withdrawal during first third of course.....50%
4. Withdrawal after the first third of course none
5. Refunds for short term courses will be calculated in the same manner at the time of withdrawal.

No withdrawals will be accepted after the midpoint of the semester. In computing refunds, the date of withdrawal is the date on which the office of the registrar receives a written notice from the student.



SUMMARY OF EXPENSES

Estimated tuition, fees and expenses* for students attending Montclair State College are as follows for the nine month September-May academic year (excluding summer) for a student taking 32 credits:

	New Jersey Commuting Student	Residing Away From Home	New Jersey Student Out-of-State Student
Tuition	\$800.00	\$800.00	\$1600.00
General Service Fee	48.00	48.00	48.00
Athletic Fee	20.00	20.00	20.00
Student Government Association	48.00	48.00	48.00
Student Union Building Fee	112.80	112.80	112.80
Student Health Insurance (Optional)	40.00	40.00	40.00
Subtotal (payable to the College)	1068.80	1068.80	1680.80
Textbooks (Estimated)	250.00	250.00	250.00
College Housing (Estimated)	—	1200.00	1200.00
Meals (Estimated) Maximum Meal Plan	—	650.00	650.00
Personal Expenses (Estimated)	500.00	500.00	500.00
Total	\$1818.80	\$3668.80	\$4468.80

ALL TUITION AND FEES ARE SUBJECT TO CHANGE

*Tuition rates represent rates for 1980-1981

Financial Aid

The Office of Student Financial Aid provides financial assistance to eligible students through the following:

Federally Funded Programs

1. Basic Education Opportunity Grants
2. Supplemental Educational Opportunity Grants
3. National Direct Student Loans
4. College Work-Study

State of New Jersey Programs

1. Tuition Aid Grants
2. Educational Opportunity Fund
3. Public Tuition Benefit
4. Student Employment

Information regarding other sources of assistance including the N.J. Higher Education Assistance Authority Loan Program, Social Security Administration, Veterans' Benefits, the War Orphans Benefit Program, and the N.J. Rehabilitation Commission may be obtained from the Financial Aid Office or sponsoring agencies.

Programs of financial assistance are revised from year to year and hence both eligibility criteria and the availability of funds may change. For further information, write to the Financial Aid Office.

Special Awards, Funds Scholarships

There are several special awards, funds and scholarships established by the College's benefactors who share its interest in quality education. To obtain information about them write to the Associate Dean of Student Affairs, College Hall, Room 217.

Intra-Collegiate Programs

In order to meet changing educational needs, the Office of Intra-Collegiate Academic Programs has encouraged the development of innovative programs.

Afro-American Studies

This program is an interdisciplinary academic minor designed to complement any undergraduate major.

The Afro-American and African studies are taught within the context of the American and European cultures, with their trans-cultural, inter-ethnic and intellectual traditions. This approach develops the student's appreciation of the heritage, culture and values of non-European and non-European-American groups.

Requirements for the minor are listed under Special Programs.

Archaeology Minor

Jointly sponsored by the Anthropology, Classics and Fine Arts departments, this minor offers the student a balanced interdisciplinary program in the study of ancient cultures. The minor is flexible enough to allow students to explore the newest scientific techniques in excavation, dating and laboratory analysis as well as the historical and aesthetic appreciation of the arts of ancient societies. It also encourages the study of foreign languages and those natural sciences which aid in the reconstruction of ancient cultures.

Requirements for this program are listed under Special Intra-Collegiate Programs. For further information call the Anthropology department.

Center for International Education

Through the New Jersey Council for International Education (CIE) Montclair State College offers the Overseas Study Program. Students have the opportunity to take a semester of study in a foreign culture. At the moment there are established programs in Denmark, England, Israel and Australia. The student can earn 16 credits which may be applied to fulfill general education, major or elective requirements.

This is a low-cost quality educational experience. Financial aid is available for eligible students.

Cooperative Education

Cooperative Education is an academic program in which students are employed in a field related to their major or career goal. It is possible to earn up to 16 credits for this off-campus learning experience while being paid by a participating employer.

Students can choose to alternate a full semester of employment with a full semester of classes or work part-time while attending class. Those who choose the alternating method retain status as a full-time student during the work semester. The program operates on a three semester cycle.

Application must be made as early as the sophomore year and a minimum GPA of 2.25 is required.

Cooperative Education courses are listed under Special Intra-Collegiate Programs. For further information about the program call the Office of Cooperative Education.

Educational Opportunity Fund (EOF)

The EOF provides the educationally and economically disadvantaged person with the opportunity to attend colleges or professional schools in New Jersey. The goal is to make college possible for the student who has the potential to succeed but lacks the credentials required to be admitted through the normal process. The EOF program recruits, admits, and supports the motivated student through graduation from college.

A wide range of majors are available to EOF students and they are also offered special services that help them in their college career. These are:

1. Assistance in applying for financial aid.
2. A required six-week summer pre-college experience that aids in the transition and adjustment to college life.
3. Tutorial assistance.
4. On-going academic, career and personal counseling.

For detailed information call the director of EOF (201-893-4384).

Paralegal Studies

Developed in accordance with the guidelines provided by the American Bar Association's Standing Committee on Legal Assistants, this program can be an integral part of a student's undergraduate education. Taken as a minor, it offers a balanced and varied background in legal fundamentals, appropriate skills, and practical experience necessary for work as a Legal Paraprofessional. It is open to all students who have completed their freshman year. An optional Hispanic specialization is offered through the Spanish and Italian department.

Program requirements are listed under special programs.

Second Careers

This program is designed for adults who want to begin or resume study for a bachelor's degree either part-time or full-time. It recognizes and addresses the unique problems of adult learners by providing pre-admission and post-admission counseling, an orientation seminar that focuses on adults re-entering college, flexible class scheduling and an opportunity to earn advanced credits through the CLEP general examinations.

For further information about Second Careers call the director (201-893-4431).

Upward Bound

This program was established for young people from low-income families who have inadequate secondary school preparation. It is a pre-college program that helps students to acquire the skills and motivation necessary for higher education.

Montclair State College and Saint Peter's College co-sponsor Upward Bound. The summer segment is held at Montclair State and the academic year at Saint Peter's. Sixty students are recruited from Jersey City and ten from Montclair.

Weekend College

Montclair State College offers the opportunity to attend college during the weekends as a full-time or as a part-time student working toward a bachelor's degree. Classes are offered throughout the weekend in both the fall and the spring semesters beginning on Friday evening and continuing on Saturdays and Sundays. A student may take one course or several, on one day, or on all three days. As a student progresses toward the degree, he or she may have to take some of the advanced courses during the week.

Each student has an academic counselor who helps in the proper selection of courses and scheduling that meets the student's needs and interests.

The Weekend College is a valuable cross-cultural experience for the English speaking person seeking to work among the Spanish speaking. Many of the students in the Weekend College are Spanish speaking because a major part of the Weekend College is geared toward providing an education that meets the needs of the Spanish speaking or bilingual person.

To get detailed information, call Weekend College Admissions.

Winter Session

Innovation and flexibility were the reasons Montclair State College established the Winter Session.

In a separate three week period in January devoted to intensive work, students are offered the opportunity to take a single course which usually could not be incorporated in the regular semester schedule. Traditional courses which may be organized and presented differently from the usual 16-week pattern are also offered.

The Winter Session affords the faculty an opportunity to teach new courses, renovate old courses, design interdepartmental courses, develop study abroad, travel, conduct research, or explore areas of study that are new, different and thought provoking.

Women's Studies Minor

Men and women are given the opportunity to explore the role and history of women in society and to investigate all aspects of women's experience in this interdisciplinary, academic minor. In order to develop a program that encompasses the contributions, perceptions, history and characteristics of women in their society courses are selected from many departments throughout the college.

Requirements for this program are listed under Special Intra-Collegiate Programs. For further information call the Coordinator of Women's Studies. (201-893-5145)



Services and Facilities

Alumni Association

Graduates of Montclair State College automatically become members of the Alumni Association. Each year the Association Executive Board and the alumni director plan a schedule of activities including class reunions, fall homecoming, Alumni Weekend, special conferences and senior class activities. The Association also sponsors scholarships and faculty grants and conducts fundraising activities which enable alumni to support their favorite College projects. The Alumni Office is located in the Alumni House, 34 Normal Avenue, Upper Montclair.

Athletics

Intercollegiate athletics are coordinated by a board of student, faculty and alumni representatives called the Montclair State College Athletic Commission. The intercollegiate program provides students of all the Schools with common and unifying activities.

The women's varsity program includes basketball, fencing, field hockey, gymnastics, softball, swimming, tennis and track. The College is a member of the Association of Intercollegiate Athletics for Women and the Eastern Association of Intercollegiate Athletics for Women.

The men's intercollegiate sports are baseball, basketball, cross-country, fencing, football, golf, lacrosse, soccer, tennis, track and wrestling. Rules of eligibility are determined by the College, the Eastern College Athletic Conference and the National Collegiate Athletic Association.

All participants in the intercollegiate program must pass a medical examination each year.

Physical Facilities:

Panzer Gymnasium — Regulation size swimming pool, three basketball courts, gymnastic facility, wrestling room and sauna bath, weight-training facilities, indoor batting cage for baseball and golf, and separate training rooms for men and women.

Sprague Field — seating for six thousand, artificial turf, permanent lighting system, cinder track (all home football games, some lacrosse, and soccer are scheduled for this facility).

Pittser Field — Baseball diamond, practice area for football, and intramurals. Eight tennis courts and a lighted platform tennis court are adjacent to field.

Utility Field — Practice area for various activities.

Campus Employment

College Work Study Program (CWSP) makes it possible for a student to earn money in a federally supported work-study program in the community or on campus. Eligibility is based on how much need is shown on the New Jersey Financial Aid Form. Earnings can only be used for educational expenses. To apply, contact the college's Financial Aid Office for the correct form.

Student Assistants Work Program (SA) involves various jobs on campus. Again, eligibility is based on a student's proven need. SA earnings can only be used for meeting education costs.

Information on *all* these aid programs is available through the Financial Aid Office on campus.

Career Services

Career Services helps students and alumni to explore career options. The career library has up-to-date information on numerous fields. Seniors can use the recruitment program and Candidate Retrieval System (a computerized job-matching service) to find full-time, part-time, and summer jobs.

Career counselors are available to help students make themselves employable before graduation, write effective resumes, conduct successful interviews and job searches, or explore career options in their majors. Activities such as these are addressed in seminars and individual sessions. Students are urged to use Career Services as early as possible in their college lives.

Center for Adult Continuing Education

Chairperson: Ray Ast

A college always plays important roles in the life of the community-at-large. The center allows the undergraduate an opportunity to see some of these active roles.

Teachers already involved in the education of adults take programs designed for staff development and leadership training. A variety of services for older adults, industry, agencies and institutions as well as adult basic education and high school equivalency programs are all part of the outreach. In addition, the center through the National Adult Education Clearing House provides an information exchange for adult educators throughout the world. It is recognized by UNESCO as a member unit of the Worldwide Information and Documentation Center for Adult Education. Its library is extensive and can be used directly or through the mail (in the United States).

The CLEP and GED tests at Montclair State College are administered by the Center for Adult Education.

Undergraduate level course offering:

0807 0459 SEM-PRACTICUM-ADULT COMM EDUC.

Course designed to develop awareness, skills and understanding in teaching of adults. Lecture-discussion demonstration and practicum experience, course participant will be able to become more aware of developing new approaches to guiding learning experiences for the adult.

0807 0460 CURRICULUM AND INSTRUCTION IN ADULT EDUCATION

This course is designed to increase undergraduate and graduate student professional competence as an adult educator through the development of his or her knowledge, understanding, and application of theory, teaching techniques, and curriculum in the field of adult education.

Computer Services Center

The center has facilities for both the academic and administrative functions of the College. In consortium with the other state colleges and Rutgers University, the College offers computer services using the latest technology available and is a joint owner of ECN, The New Jersey Educational Computer Network. Students may use the on-campus facility which can connect with several of the major university computers in existence in other states.

The center has 20 terminals, along with keypunch units and graphics terminals. It also offers a Honeywell Level 6 Model 47 computer and a Data 100 Remote Job Entry Station.

The New Jersey Network offers excellent computing capacity for most major subjects. If a student needs to reach beyond that, he or she can have access to the EDUNET System and its chain of computing facilities at many major universities.

Health Services

The College Health Center is staffed by one doctor and four nurses. The Center provides pre-participation examinations, tuberculosis screening, first aid, pregnancy tests and referrals to personal physicians or specialists.

Student medical insurance for accident and sickness benefits is available at a moderate annual premium, payable at registration. Participants in collegiate athletics are required to have this coverage. Additional information is available from the Student Personnel Office, College Hall (201-893-4206) or the Health Center (201-893-4362).

Housing

The college offers several choices for student housing. For undergraduates, there are five residence halls, and one apartment complex. They hold 2,000 men and women. There is also off-campus housing for more than 1,500 in the surrounding community.

New students are guaranteed housing and returning students have an excellent possibility of living on campus because of the 640 bed residence (Blanton Hall) which opened in January of 1982.

Each hall is staffed by a director and student assistants. They are very glad to describe the many activities and organizations available, as well as job and leadership opportunities in housing.

In a residence hall, students choose one of the board plans at its cafeteria. If they live off campus or in the apartment complex, they can sign up for a college meal plan or not, as desired.

Library

The Harry A. Sprague Library is a vast information center, with more than 300,000 printed books, 2,500 periodicals, 30,000 government documents, and more than 500,000 items on microform. It is equipped for all kinds of research.

The library's quiet, pleasant atmosphere is enhanced by a number of study tables, individual carrels, conference and viewing rooms and lounge areas. Each staff member is trained in library science and has a subject specialty. Every year, many classes are given to help students profit from the resources in the Sprague Library.

Media Center

A well-equipped Media Center is located in College Hall. It takes care of all requests for audiovisual materials, equipment, and services. The center also handles the scheduling and rental of films.

Through this center, faculty and staff have access to videotaping equipment and a closed-circuit TV studio. On request, the staff will demonstrate audiovisual techniques and design and produce graphic materials. The center lends cameras or slide projectors to students for special projects.

Memorial Auditorium

Life Hall Memorial Auditorium, capable of seating more than one thousand people, is the main setting on campus for the performing arts. Built with superb acoustics and excellent sight lines, the auditorium can mount complex stage productions. Recent renovations include added practice rooms, dance and rehearsal studios, and two television studios.

Office of Student Affairs

The Office of Student Affairs provides guidance in financial aid, part-time employment, housing, veterans' affairs, health, emotional adjustment, leadership training and social adjustment, as well as personal counseling of a general nature.

Panzer Gymnasium

The modern, attractive Panzer Gym provides extensive facilities for all physical education activities. There are separate areas for basketball, fencing, gymnastics, swimming, pre-season baseball, weights and other recreational sports.

All our facilities meet the standards of the National Collegiate Athletic Association. The pool has an electrical timer. The training and equipment rooms are located centrally for easy access by both men and women.

Panzer School Council

In 1958, Panzer College, a noted single-purpose institution with a rich tradition of developing teachers of physical education and health, was incorporated into Montclair State College and became known as the Panzer School of Physical Education and Health at Montclair State College. The College became the custodian and depository of Panzer College records. The Panzer School Council was established in 1971 during a reorganization of the College. Presently, the Council is part of the School of Professional Studies. Membership consists of the chairpersons of the Physical Education, Health Professions and Recreation and Leisure Studies departments. A major portion of the Council's efforts to aid students in extra-curricular activities are actively and generously supported by the Panzer-Montclair College Alumni Association. Such support takes the form of direct scholarship aid, providing funds for professional conferences, workshops and sports clinics.

Parking

Parking for students is available on campus in several areas. These are indicated on all campus maps.

Parking and vehicle regulations are always listed in the current Schedule of Courses booklet.

Psychological Counseling

A staff of professional psychologists and a part-time psychiatrist are available every school day at the Office of Psychological Services. The staff observes the ethical standards of the American Psychological Association, guaranteeing confidentiality.

Counselees have access to testing, diagnosis, individual and group therapy, off-campus referrals and a variety of groups for specific problems.

Psycho-Educational Center

The Center has been designed to train graduate and selected undergraduate students in the areas of school psychology, learning disabilities, reading, speech, audiology, student personnel services, as well as the teaching of the socially and emotionally disturbed. There is a demonstration school in the center.

Undergraduates may take programs in industrial education, music and art therapies. In addition, they may train in order to diagnose people with learning, language and speech disabilities.

Religious Facilities and Programs

The Newman House, 894 Valley Road, is associated with the Catholic Church but is open to students of all religions. A lounge and library are available for students and faculty and a liturgy is celebrated daily. The Jewish Student Union is located on the first floor of Life Hall. The Montclair Protestant Foundation is located in the Student Center. These groups sponsor and often co-sponsor events of an artistic, intellectual, social or theological nature. The chaplains share an office in the Student Center and are available for counseling.

Remediation Programs

Montclair State College has remediation programs in mathematics, reading and writing.

The mathematics program is located in the Learning Resource Center. It is coordinated by the Mathematics Department and directed and supervised by graduate assistants.

The Reading Improvement program helps a student improve many skills. It is part of the Reading and Study Skills Center and can be used on a drop-in basis.

The Writing Workshop is a tutorial program which helps a student to improve his or her writing skills and teaches them research techniques. It is supervised by faculty, assistants and adjuncts from the English Department.

For information about these programs, consult an advisor or counselor.

Reserve Officers Training Corps (ROTC)

Army

The Department of Military Science at Seton Hall University offers courses and a program in military science designed to qualify young men and women for commissions in the U.S. Army. Officers commissioned through ROTC are educated by the same professors, under the same curricula and at the same institutions which produce civilian leaders; earn degrees in the field of their choice; represent all geographic, economic and social strata; are highly motivated, open-minded and civilian oriented. Army ROTC aids students by providing leadership and management experience found in few college courses; providing opportunity for a military career in the Active Army or a Reserve component; developing self-discipline, physical stamina and poise; enhancing development of management skills; and developing qualities basic to success in any career.

Montclair State College in concert with the Seton Hall University ROTC program has provided the opportunity for students interested in this program to receive instruction and credit at Montclair. The courses listed below will be offered this fall on the Montclair campus. Registration is through Seton Hall and special arrangements have been made to accomplish this during the first class session.

Air Force

Montclair State students can earn appointments as commissioned officers in the U.S. Air Force, through an ROTC cross-town agreement with New Jersey Institute of Technology. Students with two or more years of college remaining in either undergraduate or graduate studies are eligible to apply. Credits for The General Military, Professional Officer courses and Aerospace Studies, taught at NJIT are applicable as free elective credits toward graduation from MSC. For information on the conditions, benefits, and procedures of the program contact the Office of the Vice President for Academic Affairs.

Safety and Security

The college maintains a full-time police force. Its purpose is to help provide a safe, comfortable atmosphere on campus and its responsibilities include the enforcement of security regulations.

The police force oversees all traffic and parking regulations and has the power to issue both campus and municipal summonses for violations.

For information about the police and/or security, traffic and parking policies, contact the Campus Police office at 201-893-5222.

Student Center

The Student Center is the main gathering point for recreation and social activity. This large, modern building has a cafeteria and snack bar, ample lounges, and a game room equipped with pool and ping-pong tables, pinball machines, and electronic games. The student-run radio station operates on the top floor. In the basement are the bookstore, a branch of the Pilgrim State Bank, and the Rathskeller.

Veterans' Credit

Veterans who have completed a minimum of six months active duty are eligible to receive three elective credits, one of which fulfills the one semester physical education requirement. Applications to receive these credits are available in the Veterans' Office.

The Women's Center

The Women's Center aids in the education of men and women to their ever-changing rolls in society. Its staff seeks to increase the too-often ignored responsibilities, potentials and opportunities leading to the self-determination and fulfillment of every human being.

To achieve this goal for the total community on and off campus the center provides a drop-in center, counseling, skills courses, a library, personal awareness seminars and many other aids in the process of individual growth.

For further information call the director. (201-893-5106)



Academic Standards and Procedures

Advanced Placement

Students with demonstrable equivalencies may, under appropriate circumstances, be exempted from required courses and permitted to take more advanced work. Eligibility for advanced placement may be established on the basis of high school records or by scoring sufficiently well on specialized tests including the Advanced Placement Examination of the College Entrance Examination Board, College Level Entrance Placement (CLEP) tests, challenge examinations, etc. Students desiring advanced placement are advised to consult with the appropriate department chairperson and school dean to determine specific possibilities within their area of competence.

Advisement

A full-time academic counselor is assigned to each School to counsel students in curriculum planning, registration and choice of major. There is also an academic counselor available to students who enter the College as an undeclared major. New students are assigned to a faculty member from their major departments for general counseling and academic advisement.

A freshman seminar provides students undecided on a major with information concerning educational opportunities and services of the College. Others may enroll on a space available basis.

Attendance

Students are expected to fulfill all course requirements which may include class attendance. Instructors should notify the students in writing, of what the course requirements will be. Professors may penalize the students for failure to meet attendance requirements.

It is the student's responsibility to confirm registration and determine course requirements by the end of the add-drop period.

Audit Policy

To “audit” a course is to attend class regularly, without the obligation of participating in class discussions, laboratory work, examinations, performances or any class activity other than listening. A course may be audited under the following conditions:

Students registered for courses carrying regular academic credit:

1. Audited courses do not carry academic credit.
2. The college’s attendance policy applies to audited courses.
3. Students auditing a course must establish eligibility for admission, register and pay the required tuition and fees.
4. Students must file an “Audit Application” form with the Office of the Registrar.
5. A course may be audited only if the department chairman permits, and if there is space in the class.
6. Audited courses are considered as part of the student’s load and may not cause the student to exceed maximum limits.
7. An “audit” may not be changed to “credit” nor a “credit” to “audit” after the first 3 weeks of the semester. Audit deadline for full term courses is Tuesday, September 22, 1981.
8. A grade of “AU” will be given for the audited class if the conditions prescribed by the instructor have been met.

Students registered only for “audited” courses must follow conditions

1-5 above plus:

1. The student may not change to a credit basis during the term of enrollment.
2. A student who later seeks credit by examination for a course previously audited must be enrolled in the college at the time the examination is taken and is subject to such fee charges for the examination as the college may establish.
3. A student who has audited a course may take the course at a later date for credit.

Basic Skills Requirements

The College expects all students to demonstrate proficiency in writing, reading, mathematics, and speech. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State College will be assigned a test date and registration will not be completed for entering freshman students until the Basic Skills test scores are in. Developmental courses in reading, writing and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT. Students who receive low scores on the Basic Skills test will have their pre-registration course selections modified to include the appropriate developmental course(s) prior to receiving their class schedules.

Cancellation of Courses and Staffing

The College reserves the right to cancel any course for which the enrollment is insufficient. Students may then register, without penalty, for another course for equal credit or receive a full refund of tuition and fees. The College also reserves the right to change faculty assignments and therefore cannot guarantee students faculty of their choice.

Class Standing

For sophomore standing a student must complete 26 credit hours with an average of 1.6; junior standing, 58 credits with an average of 1.8; senior standing, 90 credits with an average of 2.0. For graduation, 128 credit hours are required with a 2.0 average as well as 2.0 in the major.

Course Loads

Full-Time Undergraduate Students

Full-time undergraduate students should earn 15-16 credit hours per semester. Special permission is required to take a Course Overload of more than 19 semester hours. To be considered a full-time student one must register for and continue active enrollment in at least 12 semester hours for the entire semester.

Full-time undergraduate students who have at least sophomore standing (26 credit hours earned) and a 3.00 or above cumulative grade point average or a 3.00 or above grade point average for the semester most recently completed may, upon the approval of the Dean of the School in which the student is majoring, register for a Course Overload. A School Dean may make exceptions to the eligibility criteria for Course Overloads. Requests for Course Overloads of 23 or more credit hours must additionally be approved by the Vice President for Academic Affairs.

All registrations for Course Overloads are on a space available basis during Change of Program registration. The College reserves the right to reduce the course load of any student who registers for more than 19 credit hours without Course Overload approval.

Part-Time Students

Undergraduate or Graduate students who have been admitted for part-time study may not register for more than 9 semester hours. Students must register for and complete a minimum of 3 semester hours of course work within 3 consecutive semesters of the date of admission; otherwise it will be necessary to reapply for admission. In addition, students who have begun course work but do not register for and complete a minimum of 3 semester hours of course work within any three consecutive semesters (including fall, spring and summer) will have to reapply for admission.

Course Overlap

Students may not register for courses where there is a time/day overlap. Should such a condition exist, the College reserves the right to drop one of the courses from the student’s schedule.

In certain laboratory or studio type courses, in exceptional circumstances, course registration overlap may be permitted with written approval of the instructors of both courses as well as the approval of the dean(s) and chairperson (chairpeople) responsible for the instructional area.

Written permission must be obtained prior to the end of the official in-person registration.

Credit by Examination and Experience

Montclair State College offers the opportunity to all students to earn up to 60 semester hours through the College Level Examination Program (CLEP), the Advanced Placement Examination of the College Entrance Examination Board (CEEB), or departmental challenge examinations.

The CLEP General Examinations offer entering students the chance to earn up to 27 credits; thus the bachelor’s degree may be earned in three years. In addition to the general examination, there are also over 30 CLEP subject matter examinations.

CLEP tests are given nationally during the third week of each month. Since CLEP general examination scores must be submitted prior to enrollment, these tests should be taken at least two months before the beginning of the semester. Montclair State College is a testing center and an application for the tests may be obtained by writing to:

CLEP Test Center
Center for Adult/Continuing Education
Montclair State College
Upper Montclair, NJ 07043

Montclair State offers students the opportunity to take subject matter challenge examinations for many courses. Not all courses at the College are eligible for credit by examination.

Credit for Life Experience

Montclair State College uses the evaluating services of Thomas Edison College for those who want life experience credits. All requests for evaluation must be made to Thomas Edison College in the first semester of enrollment. This evaluation and a report of credit will be sent to Montclair State. Failure to initiate the process in the first semester can cause the student the loss of credit.

Dismissal

Academic dismissals are given to students whose cumulative GPA is more than 0.60 below retention level or to students who have returned from furlough and suspension and did not achieve at a suitable level. A student placed on academic dismissal is not eligible to return to the college.

Final Evaluation (Graduation)

It is the student's responsibility to complete the requirements as prescribed in the Undergraduate Catalog when they entered or as subsequently modified. Graduation requirements include a minimum GPA of 2.0 on a cumulative basis and also in the major. All questions regarding a student's program of studies should be referred to the faculty advisor or a school counselor. It is the student's responsibility to meet all graduation requirements.

Seniors who are eligible must file an application for graduation form in the Office of the Registrar according to the following schedule: by October 1 for the following June; June 1 for the following January; March 1 for the following August graduation.

The student will be mailed a copy of his or her final evaluation, which will detail the requirements necessary to meet the intended date of graduation.

Students who will be eligible for New Jersey State Teaching Certificates must complete the application for a certification and pay the required fees (in the Office of the Registrar) during the following periods: March 15 to April 15 for June graduation; October 15 to November 15 for January graduation; June 15 to July 15 for August graduation.

Final Examinations

Final examinations and evaluations are generally of a comprehensive nature covering the semester's work, but the form, determined by the nature of the courses' subject matter, varies with individual professors and classes. A schedule of final examinations is found in the Schedule of Courses booklet each semester.

Final examinations are weighted in relation to other evaluations which are made throughout the semester and do not replace periodic tests and other means of measuring student progress.

Furlough

Academic furloughs may be granted to students whose cumulative GPA is below retention (not more than 0.20 below) and/or are not making satisfactory progress for the degree. When a student is on academic furlough, he or she may not take course work at Montclair State.

Students granted an academic furlough are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the Academic furlough. Readmission is automatic.

A student who is readmitted from academic furlough is given two semesters to raise the cumulative GPA to retention level and make satisfactory progress towards the degree. If the student does not perform at a 2.0 level the first semester back or is not at retention

level after two semesters, the student is given an academic dismissal.

Grades and Standards

There are ten grades used at Montclair State College:

A	Excellent	IN	Incomplete
B	Good	WD	Withdrew
C	Fair	NC	No Credit
D	Poor	AU	Audit
F	Failure	P	Pass

The mark "F" signifies: (1) academic failure; (2) failure of the student to submit written notice of withdrawal; or (3) withdrawal after the midpoint in the semester. The mark "WD" is given to those who submit in writing their intention of withdrawing from a course before the midpoint of a semester.

The grade "IN" is intended to indicate that the student has not completed the course and that a grade is being withheld until the work is performed and approved. Students must enter into a formal contract with the faculty prior to the end of the semester, using the form available in the Office of the Registrar. The "IN," if not replaced with a final grade by May 1st for Fall and Winter incompletes and December 1st for Spring and Summer, will become an "F." Exceptions can be granted only upon petition to the appropriate School Dean.

A change of grade request from other than an "IN" grade, must be processed by faculty and approved no later than the end of the next fall semester following the semester in which the grade was earned.

Graduate Credit Courses (Undergraduates)

MSC seniors within 16 hours of completing bachelor degree requirements, who possess at least a 2.67 GPA and have taken all required prerequisites, may take up to 6 hours of 500 level courses if prior permission is granted. The form for this is obtainable at the Graduate Office. If courses are taken for graduate credit, graduate tuition and fees will be charged.

Admission of an undergraduate to a graduate (500 level) course does not imply future acceptance into any graduate program. That can only be done by a separate admission process.

Graduation Honors

Undergraduate students who have completed a minimum of 60 undergraduate credits at Montclair State College are recognized for academic honors. An A, B, C, or D must be received for a minimum of 48 of these 60 credits.

**Academic honors
are awarded as follows:**

- Average of 3.45 — 3.64 **cum laude**
- Average of 3.65 — 3.84 **magna cum laude**
- Average of 3.85 — 4.00 **summa cum laude**

An honors diploma will be awarded in addition to the regular diploma. A period of 3-4 months should be allowed for verification of cumulative average, printing, and mailing. However, the honors notation will appear on the official transcript after graduation.

Honors List

The Academic Honors List, issued after the close of each semester by the academic deans, gives recognition to students with a 3.5 or higher semester GPA if a minimum of 12 credits is earned in courses that contribute to the GPA.

Independent Study

Montclair State College offers opportunities for students to undertake academic credit on an independent study basis. Students who wish to register for courses on an independent study basis must obtain an "Independent Study Application" form from the Office of the Registrar. This form must be completed in full and approved by the instructor and the Department Chairman prior to registration.

One copy of this form is to be retained by the student. One copy is to be submitted to the Department Chairman, one copy remains with the instructor and the original must be submitted at the time of registration.

All courses which are approved to be taken on an independent study basis must also be listed on the registration form. The full course number (except reference and section numbers) is required.

Leave of Absence

Full-time undergraduate students in good academic standing (minimum cumulative grade point average, 2.00) may take a Leave of Absence of one or two semesters. This must be arranged through the Office of Student Affairs.

Students who take a leave are guaranteed re-admission if they file with the Office of Admissions an application for re-admission by August 1 for the fall semester and December 1 for the spring semester. Upon termination of the leave period, students are no longer guaranteed reinstatement and must follow normal re-admission procedures if they wish to attempt to return to college.

Major Declaration

Students are expected to complete the major for which they apply during the normal 128 semester hours. Students may accrue more than 128 semester hours as a result of changing majors but will not be permitted to accrue additional credits for the purpose of establishing additional majors or minors. Students expecting to establish additional majors or minors beyond 128 semester hours must obtain permission from the Vice President for Academic Affairs.

Students will not be entitled to declare additional majors or minors after the date for which they applied for final evaluation for graduation.

Plagiarism

All papers, reports and research submitted by students shall be their own except as properly annotated. The copying or imitating of others' work is plagiarism. A student guilty of plagiarism may be subject to dismissal.

Privacy Act

The Family Education Rights and Privacy Act of 1974 (Buckley Amendment) permits the college to release directory information about a student unless the student specifically requests that this information be withheld. Students who do not wish directory information to be released should notify the Office of Student Affairs within the first two weeks of each semester.

Registration

General course selection for in-coming students at Montclair State College is accomplished through a mail registration procedure. Students will receive registration materials in the mail and should return them properly completed to the Office of the Registrar. Since the master schedule is developed and administered through a series of data processing steps, students are urged to read registration materials thoroughly before completing registration forms. Students should consult their advisor or the counseling offices for assistance with this activity.

Repeated Courses

A student should repeat a failed course as soon as possible.

To repeat a course a student must register, make payment for that course and file a Repeat Course card with the Office of the Registrar. There is no special approval required to repeat a course in which a grade of "F" was received. A course repeated at another institution does not remove a "D" or "F" at Montclair State College.

A student must repeat a failure if the course is required for graduation. When a course has been repeated, both the original and subsequent courses are included on the permanent record, but the credit is counted only once. The grade received in the repeated course becomes the official final grade. Generally, students may not repeat courses in which grades of "D" were received. A student may repeat a sequential course in which a grade of "D" was received with approval of the department chairman in which the course was taken as well as approval of the Vice President for Academic Affairs, providing permission is obtained prior to registration. Only the first half of a sequential course with a grade of "D" may be repeated and shall be done prior to taking the second half. The regulations for failed courses also apply to a repeated course in which a grade of "D" was received. Courses in which the student received grades other than "D" or "F" cannot be repeated. Repeated course forms are available in the Office of the Registrar.

Residence Requirements

A minimum of 32 credit hours of the total required for the baccalaureate degree must be completed at Montclair State College. The final 24 credit hours required for graduation must be taken at Montclair State College and cannot be acquired through transfer.

Any student who transfers from another institution with advanced standing in a major field of study is required to complete a minimum of twelve credit hours of upper level course work in the major at Montclair State College. Some curricula may require more than this minimum.

Retention Standards

All undergraduate students whose cumulative GPA or previous semester GPA is below 2.00 are automatically on probation. The students on probation are not permitted to remain in the college for more than two consecutive semesters. Full-time undergraduates are expected to earn an average of 12 semester hours per semester of attendance.

Students are subject to non-retention if the cumulative GPA is below minimum retention for the number of semester hours earned. Semester hours earned include all courses passed at Montclair and any credits earned through transfer, credit by examination or assessment.

	Total Semester Hours Earned		
	0-57	58-89	90 plus
Minimum Retention	1.60	1.80	2.00
Academic Furlough	1.40-1.59	1.60-1.79	1.80-1.99
Academic Suspension	1.00-1.39	1.20-1.59	1.40-1.79
Academic Dismissal	0-.99	0-1.19	0-1.39

Student Responsibility

The College expects students to assume responsibility for knowing and meeting the various regulations and procedures set forth in the College catalogs. The College reserves the right to terminate the enrollment of any student whose conduct, class attendance, academic record or financial obligation should prove unsatisfactory.

Summer Session Attendance

At Montclair State College

MSC undergraduates wishing to attend Summer Sessions at the College must establish eligibility for summer attendance, meet retention standards of the College at the time of registration and

secure the signature of their school counselor on the registration form. Matriculated undergraduates without a major have their registrations approved by the academic counselor for undeclared majors. Part-time provisionally matriculated undergraduates have their registrations approved by the counselor for part-time provisionally matriculated undergraduate students.

Visiting students from other colleges and universities must submit with their registration a written statement from their respective deans indicating the student's current enrollment, good academic standing, specific course(s) approved for transfer credit, latest cumulative GPA and point scale upon which computed. In addition, the "Student Personal Data" form must be submitted with the registration.

At Another Institution:

Students wishing to attend summer session at another institution must complete the Request for Work at Another Institution form available in the Office of the Registrar and obtain the approval of their department chairperson. Students without a major must obtain permission from the Office of the Vice President for Academic Affairs. Rules concerning transfer credit apply to summer work taken at another institution.

Suspension

Academic suspensions are given when a student's cumulative GPA is below retention level and/or is not making satisfactory progress for the degree. When a student is on academic suspension, he or she may not take course work at Montclair State.

Students granted an academic suspension are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the academic suspension. Readmission is not automatic. It is based on the probability of success in the chosen major and upon the space available at the time.

A student readmitted from academic suspension is given two semesters to demonstrate satisfactory progress for the degree. If the student does not perform at a 2.0 level the first semester back, or does not demonstrate satisfactory progress towards the degree, the student is given an academic dismissal.

Transcripts

Students may obtain transcripts from the Registrar by written request at a cost of \$2.00.

Transfer Credit

MSC undergraduate students who wish to take courses at another institution and transfer the credits to MSC must obtain permission from their department chairperson prior to enrollment in the course(s) they wish to transfer. Students without a major must obtain permission from the Office of the Vice President for Academic Affairs. All accepted credits will be listed, without grades, on the student's permanent record. Grades earned at other institutions are not included in cumulative average. However, transfer credit hours are used in determining the student's level.

All specific requirements for the degree must be completed even though this may involve more than that expected by the student at the time of transfer. Courses with grades of "D" or "F" are not accepted for transfer credits.

Transfer Credits

Non-Accredited Institutions and Credit by Examination

To receive the evaluated credit those students transferring from institutions not regionally accredited or receiving credit by examination shall:

1. In the first semester, a full-time student shall earn a minimum of 12 semester-hours with a minimum grade-point-average of 2.00.
2. A *part-time* student shall earn a minimum of 12 semester-hours in the first 14/15 semester-hours attempted and with a minimum cumulative grade-point-average of 2.00.

Veteran's Credit

All Veterans who completed a minimum of six months active duty are eligible to receive 3 elective credits, one of which fulfills the one semester physical education requirement. Applications to receive these credits are available from the Veterans Office. (201-893-5180)

Withdrawal From Courses

Students who wish to withdraw from courses must complete the withdrawal form or send a written notice to the Office of the Registrar. (Notification to the instructor or a "Stop Payment" of a check does not constitute an official withdrawal from the College.) Upon receipt of the withdrawal notice, students will be given or sent acknowledgement. Any student who fails to receive such acknowledgement within two weeks should immediately notify the Office of the Registrar. Withdrawals are computed from the date of receipt of the written notice. Students who do not submit a written notice will receive the mark of "F" in those courses which they cease to attend. See the current Schedule of Courses for deadline dates.

Withdrawal from College

A full-time undergraduate student wishing to withdraw from the College must complete an official withdrawal form in the Office of Student Affairs. If the student is a minor, the signature of a parent or guardian is required on the withdrawal form. Strict adherence to the withdrawal procedure is necessary for possible readmission.

Students who find it necessary to withdraw after the midpoint of the semester for medical reasons or personal emergency must petition the Dean of Student Affairs in writing, and provide supporting medical documentation.



Requirements for the Undergraduate Degree

The following general education requirements apply to those students who begin their studies no later than the academic year 1982-83 (Fall 1982, Spring 1983). New general education requirements are being developed which will apply to all students who begin their studies at Montclair State College in Fall, 1983 or thereafter. The new requirements will be published in a separate booklet.

All students at Montclair State College are required to have a minimum of 128 credits to graduate. These credits are divided into *General Education requirements, Major Field Requirements* and *Electives*.

GENERAL EDUCATION REQUIREMENTS	37-48 sh
DISTRIBUTION	36 sh
COMMUNICATIONS	0-9 sh
PHYSICAL EDUCATION	1 sh
MINORITIES CULTURE	1 course
MAJOR FIELD	32-55 sh*
ELECTIVES	48-59 sh

*For the current semester hours in each major see the departmental curriculum guide.

General Education Requirements

Distribution

The Distribution Requirement consists of 12 sh in each of the following three categories for a total of 36 sh.

Humanities and the Arts

12 sh are needed in 3 areas with 6 sh taken in one of these areas.

- Educational Foundations
- English, Communications
- Fine Arts
- Foreign Languages (French, German, Italian, Spanish, Russian, Latin, Greek, Portuguese)
- General Humanities
- Linguistics
- Music
- Philosophy and Religion
- Speech and Theatre

Pure and Applied Sciences

12 sh are needed in 3 areas with 6 sh taken in one of these areas.

- Administrative Sciences
- Business and Distributive Education
- Earth Science
- Health Professions
- Home Economics
- Industrial Education and Technology
- Interdisciplinary Science
- Biological Science

- Mathematics and Computer Science
- Physical Education
- Physical Science
- Recreation Professions

Social and Behavioral Sciences

12 sh are needed in 3 areas with 6 sh taken in one of these areas.

- Anthropology
- Communication Sciences and Disorders
- Economics
- Environmental, Urban and Geographic Studies
- History
- Human and Organizational Processes
- Political Science
- Psychology
- Sociology

Communications

All students must demonstrate proficiency* in three areas of communication: speaking, reading and writing, as outlined below. Successful completion of the basic skills tests will not exempt a student from this requirement.

- I. Reading** — The comprehension of the structure and meaning of creative written language at a level which includes the recognition of complex logical, rhetorical and metaphorical patterns.
- II. Speech** — The clear and effective comprehension and expression of the spoken American-English language for the purpose of communication, commensurate with inherent ability. Those students with serious communication problems will be referred for remedial help.
- III. Writing** — The communication of information and attitudes in written, formal language with clarity, organization, and consistent use of formal grammar and syntax, including the use of standard library techniques where appropriate.

*Levels of acceptable proficiency in writing and reading will be determined by faculty members of the English Department; proficiency in Speech will be determined by the faculty of that department. It is understood that proficiency means performance above the rudimentary level. Students may demonstrate proficiency in each of the three areas by anyone of the following methods:

- A. Transferred Credit From Another College
- B. Internal Challenge Examinations

The student may submit an application to the appropriate department to allow him/her to demonstrate his/her proficiency in lieu of registering for a course. (Students who do not pass the speech proficiency screening, but are not in the category of referral for remedial work, will enroll in one of the designated 100 level courses.)
- C. Completion of a course at Montclair State College as described below.
 - a) Reading
 - 1) English 106 Introduction to Literature
 - 2) Any course dealing with the critical reading of imaginative literature in the original language, here understood to be English.
 - b) Speech
 - 1) Speech 100 Fundamentals of Speech (Teacher Certification)
 - 2) Speech 101 Fundamentals of Speech (Communications Requirement)
 - 3) Speech 102 Basic Speech Skills (Must be recommended by a school Counselor)
 - 4) Speech 105 Voice and Speech Improvement for Students with Foreign Speech Patterns
or
Passing the Speech Waiver/Placement Exam (held at the beginning of each semester)

- c) Writing
- 1) English 100 Writing Workshop
 - 2) English 103 Special Communication Techniques
 - 3) English 105 Freshman Composition

Note:

Provisions for Non-Native Speakers of English:

Those students who take the tests especially designed for non-native speakers of English and who do not demonstrate an acceptable level of proficiency must take the following:

- 1) Linguistics 111 English for Speakers of Other Languages I (prerequisite for Speech 105 and ESOL II)
- 2) Speech 105 Voice and Speech Improvement for Students with Foreign Speech Patterns
- 3) Linguistics 112 English for Speakers of Other Languages II
- 4) Education 0808:405 College Reading Improvement (1 sh)
Upon completion of this program, the students will be retested. Those who do not attain an acceptable level of proficiency will be directed into one of the following courses, dependent upon the individual's needs: ESOL III, or the English Writing Workshop.

Physical Education

The Physical Education requirement may be met by any one-semester-hour skill activity course, which may be a major or a non-major offering.

If a physical limitation precludes enrollment in a regular activity course, the student shall present a physician's statement to the chairman of the department of Physical Education who, with the student, will arrange a suitable alternative.

Minorities Culture Requirement

The purpose of the Minorities Culture Requirement is to ensure that all graduates of MSC be acquainted with the life, history, and cultural contribution of a group recognized by the larger society as constituting a disadvantaged sub-culture in the United States. The Department of Labor categorizes these as Blacks, Hispanics, American Indians, and Asian/Pacific Islanders. Even though women do not represent a statistical minority, they have shared "minority" status and can be considered as part of this category.

A listing of the courses which meet this requirement may be found in the current *Undergraduate Degree Requirements* booklet.

Major Field Requirements

The Major Field semester hours requirements are generally limited to 32-55. However major programs vary and some have special areas of concentration which might require more semester hours.

For the total requirement in each major, consult the departmental curriculum guide.

Elective Requirements

In order to fulfill the remaining credits for 128 semester-hour degree requirements a student is free to choose any course of interest. Students may also choose to minor in a field by taking the appropriate course work as part of their free electives or they may choose to meet the Teacher Education Requirements.

GENERAL INFORMATION

Exemptions from Freshman English

- A student who scores 3 or 4 on the Advanced Placement test is exempted from English 105; the waiver is issued by the Director of Freshman English (DFE). The student is granted 3 credits but the student must submit a research paper to the DFE or a designee to fulfill the College's Writing requirement.
- A student who scores above 600 on the English Achievement test is exempted from both 105 and 106; the

waiver is issued by the DFE. The student is granted 6 credits but must submit a research paper to the DFE or a designee to fulfill the College's writing requirement. Once the research paper is accepted, this student has completed the Communication requirements in both writing and reading.

- A student who wishes to be granted an exemption from the College writing requirement must demonstrate writing and research competence at the same level as those students who successfully complete 105. The student's work will be evaluated by the DFE or his designee. **This exemption carries no credit.**
- A student who wishes to be granted an exemption from 105 or 106 or both but wants credit must register for the course or courses and ask the instructor for a challenge examination. The instructor may refer the student to the DFE for evaluation. In the case of 105, the student must submit a research project as part of the challenge process.

Courses in the Teacher Education Sequence do not fulfill the General Education Requirement.

It is recommended that, whenever possible, a student complete the General Education Requirement during the first two years of study.

Courses in the following areas will not satisfy the General Education Distribution Requirement: (a) major field, except where the student has a double major; (b) communications requirement; and (c) Teacher Certification requirements.





Accounting, Law and Taxation

Chairperson, Lee Primiano

Increased government regulation and business expansion demand added expertise of today's accountant. The department's accounting program prepares students for careers in public and private accounting.

The Certified Public Accountant is concerned with public accounting. CPA's render a variety of services for their clients: conducting independent audits and providing accounting, tax, and a variety of management advisory services. The program meets the education requirements for admission to the CPA examination.

In the private sector, graduates are prepared primarily for industrial accounting leadership positions. The program emphasizes the structure, design, and analysis of accounting systems in the financial reporting and management decision processes.

A Bachelor of Science degree is offered in Business Administration with concentrations in Professional Accounting and Managerial Accounting.

Business Administration

Required Courses

	Semester Hours
0502 201 Fundamentals of Accounting I.....	3
0502 202 Fundamentals of Accounting II.....	3
0501 261 Legal Environment of Business I.....	3
0503 270 Statistics for Business	4
0506 310 The Management Process.....	3
0506 315 Organizational Behavior	3
0504 321 Fundamentals of Finance	3
0509 340 The Marketing Process	3
0503 372 Management Science.....	4
0506 439 Business Policy.....	3
0503 463 Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113 Mathematics for Business I.....	3
1701 114 Mathematics for Business II.....	3
2204 101 Principles of Economics (Macro)	3
2204 102 Principles of Economics (Micro)	3

Concentration Programs Within the Major

Professional Accounting

Required Courses

	Semester Hours
0502 301 Intermediate Accounting I.....	4
0502 302 Intermediate Accounting II	4

0502 303 Auditing Theory and Practice.....	3
0502 307 Cost Accounting and Control I	3
0502 403 Tax Accounting	3

Electives

Select 3 sh from the appropriate list to be obtained from the department.....3

Managerial Accounting

Required Courses

0502 301 Intermediate Accounting I.....	4
0502 302 Intermediate Accounting II	4
0502 307 Cost Accounting and Control I.....	3
0502 308 Cost Accounting and Control II	3

Electives

Select 6 sh from the appropriate list to be obtained from the department.....6

Courses of Instruction

A 0502 200
ACCOUNTING FOR NON-BUSINESS MAJORS 3.0
This is a basic course in the concepts and uses of financial data as it relates to business decision making.

A 0502 201
FUNDAMENTALS OF ACCOUNTING I 3.0
Mastery of the fundamental elements of accounting, journalizing, posting, taking a trial balance, preparing financial statements, and closing books, special journals and controlling accounts.
Pre-requisites: 1701 113, 114; 2204 101, 102.

A 0502 202
FUNDAMENTALS OF ACCOUNTING II 3.0
Builds on financial accounting. Corporation accounting, bonds payable, investments, manufacturing costs, fund flow analysis and profit-volume relationships.
Pre-requisites: A 0502 201.

A 0502 301
INTERMEDIATE ACCOUNTING I 4.0
The preparation of advanced accounting statements, valuation of current and fixed assets, intangible assets, current liabilities and investments.
Pre-requisites: A 0502 202.

A 0502 302
INTERMEDIATE ACCOUNTING II 4.0
A continuation of principles underlying financial statements, long-term liabilities, present value analysis, corporate capital, funds flow and special purpose funds.
Pre-requisites: A 0502 301.

A 0502 303
AUDITING THEORY AND PRACTICE 3.0
The conduct of audits of various types, the balance sheet audit, audit working papers, correction of books and preparation of audit reports.
Pre-requisites: A 0502 302.

A 0502 307
COST ACCOUNTING AND CONTROL I 3.0
 The determination of product costs and elements of cost control applied to basic job order, process and standard cost systems. The nature of manufacturing costs and the use of accounting data in decision-making.
Pre-requisites: A 0502 202.

A 0502 308
COST ACCOUNTING AND CONTROL II 3.0
 Estimating cost, budgets and costs, standard cost, analysis and control of costs, break-even analysis and differential cost analysis.
Pre-requisites: A 0502 307.

A 0502 401
ADVANCED ACCOUNTING 3.0
 Accounting problems peculiar to consolidated financial statements, partnership accounts and special sales procedures.
Pre-requisites: A 0502 302.

A 0502 403
TAX ACCOUNTING 3.0
 A comprehensive picture of the federal tax structure the determination of net income, credits exemptions and rates for various taxpayers.
Pre-requisites: A 0502 202

A 0502 404
CURRENT TAX PROBLEMS 3.0
 Advanced phases of income taxation with particular attention to corporations, partnerships and estates.
Pre-requisites: A 0502 403.

A 0502 405
PROFIT PLANNING AND CONTROL 3.0
 Budgetary organization, various types of budgets and supplementary schedules, business forecasts of sales and production, and flexible budgets.
Pre-requisites: A 0502 307.

A 0502 407
ACCOUNTING SYSTEMS AND DATA PROCESSING 3.0
 Analysis of accounting systems and the organization of accounting information for use with manual and automated methods.
Pre-requisites: A 0502 202.

A 0502 409
CPA REVIEW 0.0
 Advanced accounting problems, current pronouncements on theory, and review of auditing theory and practice in preparation for the CPA examination. (Cannot be used to meet the 24 semester hours of accounting required to sit for the CPA examination in the state of New Jersey.)
Pre-requisites: A 0502 303.

A 0501 261
LEGAL ENVIRONMENT OF BUSINESS I 3.0
 A study of the legal principles of a governed society and the social forces within such a society. Special attention is accorded to the law of contracts and of agency, employing the uniform commercial code as a basis for interpretation. Case Material.

A 0501 262
LEGAL ENVIRONMENT OF BUSINESS II 3.0
 An analysis of the law of commercial paper and sales with an introduction to secured transactions. The basic statutory source employed is the uniform commercial code. Case material (recommended for cap preparation).
Pre-requisites: A 0506 261.

A 0501 263
LEGAL ENVIRONMENT OF BUSINESS III 3.0
 An analysis of the law of partnerships and corporations including the nature of formation, rights and duties of parties, and dissolution. The basis statutory sources employed are the uniform partnership act and the model business corporation act: Case material.
Pre-requisites: D 0504 321, A 0506 261.

A 0501 464
LEGAL PROBLEMS OF THE MARKETING PROCESS 3.0
 The historic and social relationships of law and marketing. The legal framework including (1) the relationship of administrative agencies to enforcement of legislative policy, (2) governmental regulation of anti-competitive business behavior, (3) regulations protecting consumers and (4) regulations protecting the use of intellectual property. Legal problems of international marketing and distribution.
Pre-requisites: F 0509 340, A 0506 261.

Anthropology

Chairperson: Bertha B. Quintana

All peoples and all aspects of human life are the subject of Anthropology. It stresses objectivity through the study of other peoples; gives insight from the studies that others make of us; and teaches responsibility by applying the results to our rapidly changing, evolving world.

The four basic fields: cultural anthropology, archaeology, physical anthropology, and anthropological linguistics are represented in the department. The major prepares students for advanced work in the discipline which can lead to college teaching, museum work and/or research. By providing diversity in courses, the student can prepare for non-teaching careers as well — e.g., community service agencies, public health programs, urban renewal, international relations. Programs can also be adapted to meet certification for teaching secondary school social studies in New Jersey. For those interested in a liberal arts background, anthropology is an excellent program.

The department also has a unique apprenticeship experience designed to test theories learned in the classroom and to gain practice in the field. Montclair State College is one of the few colleges in the country to offer this to undergraduates.

Anthropology Major

Required Courses

	Semester Hours
2202 100 Cultural Anthropology	3
2202 101 Physical Anthropology	3
2202 203 Anthropological Linguistics.....	3
2202 205 Prehistoric Archaeology	3

Electives (cross-cultural)

Select 9 sh from the appropriate list to be obtained from the department.....9

Electives (theory and methods)

Select 12 sh from the appropriate list to be obtained from the department.....12

Note: Work in supportive areas — e.g., transcultural studies (including non-Western history and cultural geography), urban studies, social psychology, primitive art, ethno-musicology, the natural sciences, statistics, sociology, linguistics, and foreign languages — is strongly recommended and should be discussed with major advisors.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching.

Courses of Instruction

J 2202 100
CULTURAL ANTHROPOLOGY 3.0
Analysis of transcultural data, basic methodologies, concepts and goals of anthropology, the nature of culture, its role in human experience and its universality.

J 2202 101
PHYSICAL ANTHROPOLOGY 3.0
The biological basis of human evolution including surveys of human paleontology, primatology and human races. The relationship of culture to human development; lectures, field trips and the use of fossil and audio-visual materials. (Field Trip Fee)

J 2202 200
URBAN ANTHROPOLOGY 3.0
The dynamics of acculturation that characterize the relationships between urban subcultures and the broader urban community. Emphasizes values, personality, behaviors and other aspects of the adjustment of people whose lifestyle set them apart from the dominant society.

J 2202 202
CULTURAL CHANGE AND MODERNIZATION 3.0
Cultural development, growth, transmission, perpetuation and change. The concept of modernization and its implications for folk and urban culture.

J 2202 203
ANTHROPOLOGICAL LINGUISTICS 3.0
Linguistic systems analyzed through informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages. The relationship of linguistic structure and theory to cultural systems. Cross listed with Linguistics (1505-203)

J 2202 204
ANTHROPOLOGY OF RELIGION 3.0
Patterns of religious beliefs and behaviors which relate to sacred, supernatural entities. Origin theories, divination, witchcraft, mythology and the relationship of religious movements to other aspects of culture.

J 2202 205
PREHISTORIC ARCHAEOLOGY 3.0
The development, method and theory of anthropological archaeology, analysis and interpretation of prehistoric cultural data by means of audio-visual, field and participatory involvement.

J 2202 206
HUMAN VARIATION 3.0
The study of various races from the perspective of physical anthropology. Theories and explanations of human variations, racial types in the modern world, as well as misconceptions concerning race, intelligence, and culture will be explored.

J 2202 215
THE ANTHROPOLOGY OF FOOD AND NUTRITION 3.0
An analysis of cultural practices and their effect on people's diet, nutritional status, and ecological situation. Cross-cultural comparisons will be emphasized.

J 2202 301
PEOPLES OF AFRICA 3.0
Diversity in the lifestyles of representative African cultures; prehistory, culture change, and contemporary problems in sub-Saharan Africa.

J 2202 303
PEOPLES OF SOUTH AMERICA AND THE CARIBBEAN 3.0
Selected South American and circum-Caribbean cultures: culture change from prehistoric period to present; relationship to contemporary problems.

J 2202 304
PEOPLES OF THE SOVIET UNION 3.0
Selected ethnic, linguistic and religious identities within the borders of the Soviet Union. Russian influence on culture change among non-Russian peoples.

J 2202 305
THE AMERICAN INDIAN: PERSPECTIVES ON CHANGE 3.0
Amerindian cultures north of Mexico: representative tribes, their world views, and their adaptations to the environment, each other and European contact.

J 2202 307
ETHNOLOGY OF SOUTHEAST ASIA AND OCEANIA 3.0
Anthropological survey of selected tribal and peasant societies of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia and the Philippines: Recent socio-cultural processes.

J 2202 308
PRIMATE ETHOLOGY 3.0
The relationship of non-human primate behavior to the origins of human behavior. consists of two major units: (1) the study of lemurs and monkeys and their ecologies, (2) the study of the great apes and their societies.

J 2202 309
PEOPLES OF MIDDLE AMERICA 3.0
Mexican and Central American groups which show varying degrees of acculturation. Aspects of early post-European contact; major emphasis on cultural development.

J 2202 310
CULTURES OF THE MIDDLE EAST 3.0
The Middle East culture area in anthropological perspective. Emphasis is placed on the nature of different interlocking cultural systems which are adaptations to environmental stresses in the Middle East. The concepts of culture and society will be explored in the context of course materials.

- J 2202 311
ANTHROPOLOGY OF AMERICAN SUBCULTURES 3.0
 Analysis of the diversity of racial, ethnic, religious, occupational, and other subcultures and subgroups within the U.S. Emphasis on the character of American culture. Subpopulations are examined in relationship to each other and to the mainstream culture.
- J 2202 312
PEASANT CULTURE 3.0
 Persistence and change among selected peasant peoples of the world. Characteristics of peasant society, personality in peasant culture and modernization trends and effects. Guest lectures by cultural historians.
- J 2202 313
ARCHAEOLOGY OF ANCIENT MIDDLE AMERICA 3.0
 The archaeology of ancient cultures of Middle America. Consists of two major units (1) Northern Mesoamerica, the Gulf Coast, Oaxaca and Central Mexican Aztecs (2) Ancient Maya of Mexico and Central America.
- J 2202 401
SEMINAR ANTHROPOLOGICAL THEORY 3.0
 The development of anthropological theory during the past 100 years. Various subdisciplines of cultural and social anthropology are explored and applied to similar bodies of data.
Pre-requisite: 6 sh in anthropology.
- J 2202 405
PSYCHOLOGICAL ANTHROPOLOGY 3.0
 Transcultural focus on the inter-related nature of culture and human behavior. Interdisciplinary course with emphasis on mutual dependencies of anthropological and psychological theory and method. Students work with bicultural informants. Cross-listed with Psychology (2001 405)
Pre-requisites: J 2202 100 OR, J 2001 101.
- J 2202 406
ANTHROPOLOGY OF AGING AND THE AGED 3.0
 An analysis of the influences of cultural systems on the processes of aging. Special emphasis is placed on the behaviors and meanings attached to the stages of growing older in a variety of cultural systems.
- J 2202 407
INDEPENDENT RESEARCH IN ANTHROPOLOGICAL THEORY AND METHOD 3-6
 Directed research towards the preparation of written papers, stressing fieldwork, library research and problem orientation. A tutorial without formal class meetings.
Pre-requisite: Departmental Approval
- J 2202 411
ARCHAEOLOGICAL FIELD METHODS 3.0
 Provides practical field experience in the various aspects of survey and excavation techniques. A specific area will be surveyed and a site will be excavated.
Pre-requisites: J 2202 205 OR Instructor's permission.
- J 2202 412
CULTURAL ECOLOGY 3.0
 The relationships between culture and the bio-physical environment, as well as the cultural environment. The emphasis will be on primitive and non-western cultures.
- J 2202 413
MEDICAL ANTHROPOLOGY 3.0
 Examines the study of medical care in comparative societies (ethnomedicine) as well as the historical and ecological aspects of disease in human evolution.
Pre-requisites: J 2202 101 OR Instructor's permission.
- J 2202 414
SELECTED ISSUES IN ANTHROPOLOGY 3.0
 Identification and analysis of contemporary issues and problems in anthropology — e.g., conflict and violence; models of society; new directions in anthropological inquiry and methodology, etc.
Pre-requisite: 6 S.H. in anthropology.
- J 2202 415
WOMEN IN TRADITIONAL SOCIETY 3.0
 This course surveys several traditional pre-industrial societies with special emphasis on the place of women in each society studied. The connections between environment, technology and the female work role are investigated, and the amount of power women have over their own lives and those of others is assessed. The place of women in each society's symbolic systems is also analyzed.
- J 2202 416
THE ANTHROPOLOGY OF HUMAN REPRODUCTION 3.0
 A biocultural study of pregnancy, childbirth, attitudes toward male and female children, sexual development of the newborn to adolescence, sexual maturity and behaviors and attitudes toward human reproduction.
- J 2202 418
ETHNOLOGY OF AFRICAN LANGUAGE AND BELIEF SYSTEMS 3.0
 Study of the ways in which language and belief systems are integrated in African culture. Topics discussed will include language problems in contemporary Africa, African folklore and mythology, ideas of ethnicity, etc.
- J 2202 419
EXPERIMENTAL ARCHAEOLOGY 3.0
 The course will cover the manufacture, use, preservation, analysis, and cataloging of prehistoric artifacts made of stone, bone, and wood.
Pre-requisites: J 2202 205 OR, J 2202 411.
- J 2202 420
APPRENTICESHIP IN ANTHROPOLOGY 6-12
 According to interest and preparation, students are placed in cooperating agencies in order to provide an opportunity to test their acquired theoretical knowledge and to gain disciplined practice in their profession. Under faculty guidance and agency supervision, students are to engage in anthropological fieldwork by conducting research and/or special projects.
Pre-requisite: 24 hours in anthropology, 6 additional hrs. in Social and Behavioral Sciences.
- J 2202 430
FIELD METHODS LINGUISTICS 3.0
 Focuses on the development of the student's skill in gathering and analyzing linguistic data. Complements the more theoretically oriented courses in linguistics.
Pre-requisites: J 2202 203 OR Q 1505 210.
- J 2202 432
DEVELOPMENT OF JAPANESE CHARACTER AND CULTURE 3.0
 The historical conditioning of Japanese behavior; cultural change in the perspective of traditional periodization of Japanese history; contributions of religion and philosophy to defining social values. Cross-listed with History (2205 432)
- J 2202 461
CULTURAL HISTORY OF PRIMITIVE SOCIETIES 3.0
 Interdisciplinary approach to the aims, methods and techniques of ethnohistorical research. Documentary and non-documentary evidence in reconstructing the culture history of pre- or semi-literate societies. Cross listed with History (2205 461).
Pre-requisites: J 2202 100 OR P 2205 102.

Biology Minor

Required Courses

0401 140	The Biology of the Cell.....	4
0401 121	The Plant Kingdom.....	4
0401 130	General Zoology I.....	4
0401 131	General Zoology II.....	4
0401 415	Genetics.....	5

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching. In addition, for the Comprehensive Science and Biological Science certificates, two additional courses 0401 0320 Plant Form and Function and 0834 0401 The Teaching of Science in Secondary School must be taken.

Biology

Chairperson: Anna C. Pai

The student can prepare for graduate work, or professional programs in medicine, dentistry, medical technology, and other fields related to biology, by taking the major requirements with a proper selection of electives. Students can obtain certification to teach biology by completing the professional sequence. A minor in biology is also available.

Outstanding students can take advantage of the honors program and be granted an "Honors in Biology" by fulfilling the prescribed requirements. For information about the program, contact the department chairperson.

Freshman courses offered for biology majors assume that the student has taken biology, chemistry and physics and at least three years of college preparatory mathematics in high school.

Biology Major

Required Courses

	Semester Hours
0401 140 Biology of the Cell.....	4
0401 121 The Plant Kingdom.....	4
0401 130 General Zoology I.....	4
0401 131 General Zoology II.....	4
0401 415 Genetics.....	5

Collateral Courses

1905 120, 121 General Chemistry I, II.....	4 ea.
1905 230, 231 Organic Chemistry I, II.....	3 ea.
1905 232 Experimental Organic Chemistry I.....	2
1902 103, 104 College Physics I, II.....	4 ea.

Select 6 sh

1701 115 Introductory Mathematical Analysis.....	3
1701 116 Calculus A.....	4
1701 122, 221, 222 Calculus I, II, III.....	4 ea.
1701 117, 118 Mathematics for the Life Sciences I, II.....	3 ea.

Electives

Select 14 sh from the appropriate list to be obtained from the department.....14

Second Teaching Field in Biological Sciences

Students majoring in another field desiring certification in biology in addition to one in their major field must take the following:

0401 140	Biology of the Cell.....	4
0401 121	The Plant Kingdom.....	4
0401 130	General Zoology I.....	4
0401 131	General Zoology II.....	4
0401 320	Plant Form and Function.....	4
0401 415	Genetics.....	5

Special Program Requirements

Biology Honors

- Biology Major
- Over-all GPA 3.5
- Biology GPA 3.7 with no grade lower than a "B"
- Additional Courses
 - 0401 418 Biology Independent study
 - 0401 495 Independent Study in Biology Literature (2 Biology faculty sponsors needed)

Courses of Instruction

W 0401 100
BIOLOGICAL SCIENCES 4.0
Organization of plants and animals structure, function mechanisms of heredity, evolutionary change. Interrelationships of man, other organisms and environment. (3 hrs. lecture, 2 hrs. laboratory)

W 0401 103
GENERAL BIOLOGY I 4.0
Adaptation of structure to function of cells, tissues and organs of plants and animals. Physical, chemical and ecological forces affecting these. (3 hours of lecture 3 hours of laboratory).

W 0401 104
GENERAL BIOLOGY II 4.0
Adaptation of structure to function of cells, tissues and organs of plants and animals. Physical, chemical and ecological forces affecting these.

W 0401 106
BEHAVIOR IN THE WORLD OF ANIMALS 3.0
Survey of behavioral patterns employed in interactions between animals. Aggression, communication, reproductive behavior, development of social behavior. Not for biology majors.

W 0401 107
BIOLOGY FOR SURVIVAL 3.0
Basic concepts of biology that focus on social implications of pollution, population control, radiation, drugs, pesticides, the genetic revolution, etc. for non-science majors. (3 hrs. lecture)

W 0401 109
LIVING WORLD OF ANIMALS AND PLANTS 3.0
To acquaint the non-biology major with the general principles of plant and animal interactions and the adaptations of plants and animals to their habitats including the extreme habitats of desert, cave, deep sea, and the arctic.

W 0401 110
THE BIOLOGY OF HUMAN LIFE 3.0
The biological basis to human development, birth, maturation, and aging. Not for biology major credit.

W 0401 121
THE PLANT KINGDOM 4.0
Survey of the plant kingdom with emphasis on evolutionary trends and economic importance. (2 hrs. lecture, 4 hrs. laboratory)

W 0401 130
GENERAL ZOOLOGY I 4.0
Form, function, ecology and evolution of invertebrates. (3 hrs. lecture, 3 hrs. laboratory).

W 0401 131
GENERAL ZOOLOGY II 4.0
Form, function, ecology and evolution of vertebrates. (3 hrs. lecture, 3 hrs. laboratory).

W 0401 140
BIOLOGY OF THE CELL 4.0
Form, function and evolution of cells. (3 hrs. lecture, 3 hrs. laboratory).

W 0401 212
GENETICS FOR THE LAYMAN 3.0
Basic genetic principles and modern molecular genetics and their application to human heredity, medicine, the future of man and our natural world.

W 0401 213
INTRODUCTION TO FIELD BIOLOGY 2.0
Taxonomy, ecology and conservation are stressed for a ten-day period at the New Jersey State School of Conservation in Stokes State Forest.

W 0401 240
MAMMALIAN ANATOMY AND PHYSIOLOGY I 3.0
Human anatomy and physiology for health education and physical education majors. Not for Biology majors (2 hrs. lecture, 2 hrs. laboratory).

W 0401 241
MAMMALIAN ANATOMY AND PHYSIOLOGY II 3.0
Human anatomy and physiology for health education and physical education majors. Not for Biology majors (2 hrs. lecture, 2 hrs. laboratory).

W 0401 242
HUMAN BIOLOGY 3.0
Body structure and functions in relation to the maintenance of good health. Not for biology majors. (2 hrs. lecture, 2 hrs. laboratory).

W 0401 243
HUMAN ANATOMY AND PHYSIOLOGY 4.0
A study of the dynamics of the human body in relation to its structure and function is based on its nutritional input. Each organ system is discussed in relation to its contribution to the whole functioning organism, as well as a basic survey of its pathologies. Primarily for ADA certification.
Pre-requisite: R 1905 270.

W 0401 244
ANATOMY AND PHYSIOLOGY OF MAMMALS I 4.0
Human anatomy and physiology for nursing students. Not for biology majors. (3 hours lecture, 2 hours lab).

W 0401 245
ANATOMY AND PHYSIOLOGY OF MAMMALS II 4.0
Human anatomy and physiology for nursing students. Not for biology majors. (3 hours lecture, 2 hours lab).

W 0401 253
APPLIED MICROBIOLOGY LABORATORY FOR NURSING STUDENTS 2.0
Laboratory technique and experimentation in microbiology for nursing students. Practical experience in applied microbiology to supplement principles presented in 0401 0251. One hour of discussion/lecture in modern medical microbiology. To be taken concurrently with 0401 251. Not for biology majors. (2 hrs. lab 1 hr. discussion/lecture).

W 0401 254
APPLIED MICROBIOLOGY 3.0
Microbiological concepts and techniques applicable to food and dairy processing, health and disease, water, waste and other environmental problems. 2 hr. lecture 2 hr. lab.
Pre-requisites: 1 yr. chemistry or CRS in similar field.

W 0401 255
SURVEY OF MICROBIOLOGY 4.0
Microbiological concepts and techniques applicable to medical, health and environmental problems. 3 hrs. lecture 2 hrs. lab.
Pre-requisites: 1 yr. of chemistry or CRS in similar field.

W 0401 300
ENVIRONMENTAL BIOLOGY AND RELATED CONTROVERSIAL ISSUES 3.0
Analysis of ecological problems of today population trends and control, food production, environmental deterioration, waste disposal etc.
Pre-requisite: 12 semester hours of biology.

W 0401 320
PLANT FORM AND FUNCTION 4.0
 This course acquaints the student with the methods and tools of science. Morphology and physiology of the cell and of the plant as a whole are considered.
Pre-requisite: W 0401 121.

W 0401 330
INTRODUCTION TO ANIMAL BEHAVIOR 4.0
 Concepts and theories of the sensory world of animals and behavioral patterns resulting in environmental adaptations. 3 hrs. lecture 3 hrs. lab.
Pre-requisite: W 0401 130, 131 and 4 additional biology credits or permission of instructor.

W 0401 331
CHRONOBIOLOGY 2.0
 An introduction to "biological clocks," their widespread occurrence, significance and mechanisms of action. (2 hours lecture).

W 0401 350
ELEMENTARY MICROBIOLOGY 4.0
 A study of bacteria, yeast, molds and other microorganisms in relation to modern biological concepts and the welfare of man. Standard techniques employed in the laboratory.
Pre-requisites: W 0401 140, X 1905 120, X 1905 121.

W 0401 370
PRINCIPLES OF ECOLOGY 3.0
 To acquaint the biology majors with the general principles of ecology, population dynamics and adaptations of plants and animals to the various habitats. 2 hours lecture and 2 hours laboratory (3 credits).
Pre-requisite: 1 semester botany and 2 semesters zoology.

W 0401 410
SPECIAL LAB TECHNIQUES IN BIOLOGY 2.0
 To introduce senior biology majors to certain techniques and instruments i.e. handling of radioisotopes, their use in biological systems, use of liquid scintillator, aseptic techniques, animal handling and photomicrography.
Pre-requisites: Senior Biology major, Permission of Instructor.

W 0401 411
INTRODUCTION TO TRANSMISSION ELECTRON MICROSCOPY 4.0
 Basic theory and practice of electron microscopy. Specimen preparation, ultramicrotomy, microscopy, photographic preparation of final print, interpretation of results. (3 hrs. lecture, 3 hrs. laboratory).
Pre-requisites: 18 hours biology, W 0499 404 Instructor's permission.

W 0401 415
GENETICS 5.0
 Lecture only. Heredity, gene and chromosomal structure and function, gene regulation, mutation and repair, genes in population, genetic manipulation, and applied genetics are covered. (Required for all Biology majors.)

W 0401 416
GENETICS LAB INVESTIGATIONS 1.0
 Laboratory exercises in the study of gene and chromosome structure and function, patterns of heredity including probability and statistics, and a semester long research project, and a paper which will be required. This course is to be taken in conjunction with 0401 415 GENETICS and required of undergraduate Biology majors.
Pre-requisites: W 0401 140, W 0401 121, L yr. of Chemistry.

W 0401 418
BIOLOGY INDEPENDENT STUDY 1-4.0
 Under the guidance of a sponsor, students will investigate individual problems of appropriate scope. A written and/or oral report is required. (Offered on demand).

W 0401 419
HISTORY AND PHILOSOPHY OF THE LIFE SCIENCES 2.0
 Historical survey of the major trends in the development of scientific thought. (Not offered every year).

W 0401 420
ECONOMIC BOTANY 3.0
 Importance of plants to the world in general and to man in particular. (Not offered every year)
Pre-requisites: W 0401 320 or W 0401 121.

W 0401 424
MORPHOLOGY OF FLOWERING PLANTS 4.0
 Structure, evolutionary development and taxonomy of flowering plants with greatest emphasis on variation in floral morphology. (Not offered every year)
Pre-requisites: W 0401 320 or W 0401 121.

W 0401 425
ELEMENTARY PLANT PHYSIOLOGY 4.0
 Major physiological processes of the flowering plant growth, metabolism, photosynthesis, respiration, water relations and mineral nutrition. (Not offered every year)
Pre-requisites: W 0401 320, W 0401 121, X 1905 231.

W 0401 426
NEW JERSEY FLORA 4.0
 Field identification of mosses, liverworts, ferns, and seed plants in a variety of habitats. (Not offered every year)
Pre-requisite: W 0401 121. CRS in similar field.

W 0401 430
FIELD ORNITHOLOGY 3.0
 Identification and natural history of birds in a variety of habitats. Trips on a varying schedule. (Not offered every year) (1 hr. lecture, 3 hrs. laboratory).

W 0401 431
ENTOMOLOGY 3.0
 Identification, physiology and ecology of common insect families. (Not offered every year).
Pre-requisite: W 0401 130.

W 0401 432
MEDICAL ENTOMOLOGY 3.0
 The study of arthropods that are vectors of diseases afflicting man and domestic animals. (Not offered every year).
Pre-requisites: W 0401 130 or W 0401 431.

W 0401 439
BIOLOGY OF ANIMAL PARASITES 4.0
 The basic principles of parasitism. ecological, morphological, and physiological adaptations for parasitism. Evolution of parasites and integration with the host.
Pre-requisite: 1 year of zoology and/or botany. Genetics recommended.

W 0401 440
MAMMALIAN ANATOMY AND HISTOLOGY 4.0
 Functional human anatomy at the microscopic and gross level. Laboratory dissection of the cat and study of prepared histological slides. (3 hours lecture, 3 hours lab).
Pre-requisite: W 0401 131.

- W 0401 441
COMPARATIVE ANATOMY OF THE VERTEBRATES 4.0
Ontogeny and morphology of representative taxa of the protochordates and chordates. (Not offered every year).
Pre-requisites: W 0401 131 or W 0401 440.
- W 0401 442
HUMAN PHYSIOLOGY 4.0
Functions of animal organs and systems with emphasis on maintenance of homeostasis.
Pre-requisites: W 0401 440 CRS in similar field.
- W 0401 443
DEVELOPMENTAL ANATOMY OF VERTEBRATES 4.0
Developmental anatomy of the vertebrates, especially amphibian, chick and human. General concepts of development and cell differentiation. (Not offered every year).
Pre-requisites: W 0401 130, W 0401 131.
- W 0401 444
CELL PHYSIOLOGY 4.0
Advanced course in phenomena in cell function. Individual experimental problems using specialized instrumentation are assigned in the laboratory.
Pre-requisites: W 0401 442 X 1905 230.
- W 0401 445
IMMUNOLOGY 3.0
Cellular and humoral immunal responses, immunoglobulines, antigen-antibody reactions, immunopathology, transplantation and blood transfusion. (Not offered every year).
- W 0401 446
ENDOCRINOLOGY 3.0
Basic anatomy and physiology of the mammalian endocrine glands with special attention directed to the human endocrine glands. The interrelationships between the various endocrines including neural control and the role of these glands in maintaining the homeostasis of the body will be stressed.
- W 0401 447
FUNDAMENTALS OF PHARMACOLOGY 3.0
Introduction to the study of chemicals that have biological effects, with special emphasis on those with medical importance.
Pre-requisites: X 1905 230, 1905 231, W 0401 442 Instructor's permission.
- W 0401 451
BACTERIAL PHYSIOLOGY 4.0
Type organisms are examined to demonstrate structure, function, autotrophy, heterotrophy, phototrophy, symbiosis, antibiotics and other ecological phenomena. Laboratory experiments develop advanced techniques. (Not offered every year) (3 hrs. lecture, 3 hrs. laboratory).
Pre-requisite: Organic Chemistry I, II and/or 1905 0435 Biochemistry, W 0401 350, W 0401 444, X 1905 230.
- W 0401 460
BIOLOGICAL OCEANOGRAPHY 3.0
Biological processes within oceans and estuaries are considered in relation to the physical environment. Field and laboratory work. (Not offered every year).
Pre-requisites: W 0401 130, W 0401 121.
- W 0401 461
LIMNOLOGY 3.0
Biological and physical processes of rivers and lakes. Field work and laboratory. (Not offered every year).
- W 0401 467
BIOLOGY OF THE FISHES 4.0
Systematics, adaptations, reproduction, evolution, ecology and zoo-geography of major groups of marine fishes. At New Jersey Marine Sciences Consortium. (Not offered every year).
Pre-requisites: W 0401 131, W 0401 442.

- W 0401 490
SELECTED TOPICS IN BIOLOGY 2-4.0
Course which will allow the advanced undergraduate student to study a single topic in depth. This course would allow the students an opportunity to integrate the principles of several areas (ecology, physiology, genetics, etc.) of biology in the study of a single topic.

- W 0401 491
RESEARCH SEMINAR-BIOLOGICAL LITERATURE 2.0
Each student will survey current biological literature pertinent to a specific problem. A comprehensive report is required. (Not offered every year).

- W 0499 404
PLANT AND ANIMAL HISTOLOGICAL TECHNIQUES 3.0
Basic techniques and skills in preparation of permanent microscopic slides of plant and animal tissue. (1 hr. lecture, 3 hrs. laboratory).
Pre-requisite: 12 semester hours of biology.

- W 0499 405
CELL CULTURE 3.0
Theory of and practice in working with living cells tissue culture techniques, cell communication, differentiation, regeneration and aging in several living cell systems.
Pre-requisite: All required biology courses (20 hrs.) plus permission of instructor.

- W 0499 406
SCANNING ELECTRON MICROSCOPY 3.0
Introduction to theory and practice of scanning electron microscopy. Includes specimen preparation, scanning electron microscope operation, electron specimen interactions/imager, and microanalysis.

- W 1999 220
INTRODUCTION TO MARINE BIOLOGY 4.0
This is a field and laboratory oriented-course covering the characteristics of marine plants and animals. The course is designed to provide the student with experience in collection and identifying local marine flora and fauna.

- W 1999 426
MARINE ENERGY SYSTEMS 2.0
Principles of production and energy transfer in the marine environment. Spatial and temporal distribution of productivity. Productivity measurement and assessment of the roles of plants, herbivores and carnivores in marine energetics. Offered at New Jersey Marine Sciences Consortium.
Pre-requisite: One year of Physics, one year of organic chemistry, one year of biology, and one semester of calculus.

- W 1999 431
MARINE INVERTEBRATE ZOOLOGY 4.0
A study of the invertebrates living in the marine realm with emphasis on the interrelations of these animals to their particular environment. Field work will include studies of the Peagig and Benthonic forms associated with estuaries and the continental shelf. Also offered at the site of the New Jersey Marine Sciences Consortium.
Pre-requisites: W 0401 130, W 0401 131.

- W 1999 433
SEASHORE ORNITHOLOGY 2.0
Field identification of birds of the ocean, salt marsh, sand dunes, and adjacent land areas. Includes discussion of habits and ecology. Offered at NJ Marine Sciences Consortium.
Pre-requisite: W 0401 430.

W 1999 438
SEASHORE ENTOMOLOGY 2.0
 Ecological studies of the insect fauna found in the unique habitats of the (1) Intertidal Zone, (2) Coastal Sand Dunes and (3) Salt Marsh found along the NJ shoreline.
Pre-requisites: W 0401 130 or W 0401 431.

W 1999 455
MARSH AND DUNE VEGETATION 2.0
 A field and laboratory study of the plant communities that inhabit the sand dunes and marshes of the coastal zone of New Jersey. The diversity of the forms of plant life and their adaptations and ecological roles. The collection and identification of individual plant species. Also offered at the site of the New Jersey Marine Sciences Consortium.
Pre-requisites: 8 credit hours of Biology including one semester of Botany. A course in Ecology is recommended.

W 1999 460
MARINE ECOLOGY 4.0
 Interrelationships of marine animals and plants. Ecological response to physical and chemical parameters. Principles such as zonation, succession, ecosystem structure, and physiological response will be examined through lectures, field projects and laboratory study.
Pre-requisites: 1 yr. College Chemistry; 1 yr. College Biology.

W 1999 490
FIELD METHODS IN THE MARINE SCIENCES 4.0
 The application and techniques of marine sampling, including those of biology, chemistry, geology, meteorology and physics. The nature and role of various pieces of sampling equipment. Field experience at the NJ Marine Sciences Consortium. (2 hrs. lect., 4 hrs. lab.).

W 1999 491
PLANKTON SAMPLING AND ANALYSIS 1.0.
 Sampling, identification and counting of phyto- and zooplankton. NJ Marine Sciences Consortium.
Pre-requisites: Biology major or permission of the instructor. (A specialized course).

W 1999 494
PRIMARY PRODUCTION IN THE MARINE ENVIRONMENT 1.0
 Theory and techniques of primary production measurement. NJ Marine Sciences Consortium.
Pre-requisite: 16 credits in biology or geoscience. Advanced course.

Business Education and Office Systems Administration

Chairperson, Albert D. Rossetti

There are two major thrusts to the courses offered through the department. Students in the Business Education program follow a professional sequence qualifying them for New Jersey teacher certification in a variety of business subjects. Five concentrations are available for teacher education majors, and a supervised full-time work experience is required of all business and distribu-

tive education majors. (Check with the department for information regarding this requirement.)

Students in the office administration program develop skills that prepare them for careers as office supervisors, administrative office or services managers. This program is a concentration in Business Administration offered through the department of Business Education and Office Systems Administration.

Both programs lead to a Bachelor of Science Degree and are open to high school graduates, as well as to those who have attended a two-year college. Prior business study is not required.

Business and Distributive Education Major

Professional Sequence

(Teacher Education identical for all concentrations)

Pre-professional Semester Courses

	Semester Hours
0821 220 Philosophical Orientation to Education.....	3
2001 200 Educational Psychology.....	3
0829 410 Field Experience in Education.....	1
0838 401 Principles and Methods of Teaching General Business.....	2
0838 402 838 404, 840 454 Principles and Methods of Teaching Accounting, Typewriting, or Distributive Education and Coordination.....	1 ea.
0830 407 Developmental Reading: Principles and Techniques I.....	3
0830 408 Developmental Reading: Principles and Techniques II.....	3
Professional Semester (Student Teaching)	
0829 400 Teacher, School, and Society.....	3
0829 401 Senior Field Experience.....	1
0829 402 Seminar in Professional Education.....	1
0829 411 Supervised Student Teaching I.....	8

Collateral Courses

1701 109 Statistics.....	3
or	
1701 110 Introduction to Algebra and Analysis.....	3
2004 101 Principles of Economics (Macro).....	3
2204 102 Principles of Economics (Micro).....	3
2001 101 General Psychology I.....	3

Concentrations Within the Major

Accounting and General Business Education Required Courses

0838 101 Introduction to Business.....	3
0838 335 Computer Applications of Office Systems.....	3
0838 309 Consumer Economics.....	3
0838 273 Introduction to Bus. Data Processing.....	3
0838 340 Foundations of Vocational Education.....	3
0838 402 Principles and Methods of Teaching Accounting.....	1
0838 406 Office Services and Procedures — Clerical.....	3
0838 449 Supervised Business Work Experience.....	2
0845 308 Principles of Office Management or	
0506 310 The Management Process.....	3
0845 320 Business Communications.....	3
0502 201, 202 Fundamentals of Accounting I, II.....	3 ea.

0502 301, 302	Intermediate Accounting I, II.....	4 ea.
0504 321	Fundamentals of Finance	3
0501 261, 263	Legal Environment of Business Law I, III.....	3
0838 335	Computer Applications of Office Systems	3
0838 273	Introduction to Bus. Data Processing	3
0509 340	The Marketing Process	3

Comprehensive and General Business Education

Required Courses

0838 101	Introduction to Business.....	3
0838 203	Production Typewriting.....	1
0838 303	Advanced Stenography and Transcription	2
0838 309	Consumer Economics	3
0838 335	Computer Applications of Office Systems	3
0838 340	Foundations of Vocational Education.....	3
0838 402	Principles and Methods of Teaching Accounting	2
0838 403	Principles and Methods of Teaching Stenography	1
0838 406	Office Services and Procedures — Clerical.....	3
0838 407	Office Services and Procedures — Secretarial	3
0838 273	Introduction to Business Data Processing.....	3
0838 449	Supervised Business Work Experience	2
0845 320	Business Communications	3
0845 308	Principles of Office Management or Management Process.....	3
0502 201, 202	Fundamentals of Accounting I, II.....	3 ea.
0502 301	Intermediate Accounting I.....	4
0501 261, 263	Legal Environment of Business I, III	3 ea.

Electives

Select 2 sh from the appropriate list to be obtained
from the department.....2

Distributive Education and General Business Education

Required Courses

0838 101	Introduction to Business.....	3
0838 340	Foundations of Vocational Education.....	3
0838 454	Principles and Methods of Teaching Distributive Education and Coordination.....	2
0840 208	Salesmanship.....	3
0840 249	Merchandise Information	2
0840 348	Practicum in D.E. I.....	1
0840 411	Retail Store Merchandising and Management.....	3
0840 422	Visual Merchandising.....	3
0840 423	Buying for Distribution.....	2
0840 451, 452	Supervised Work Experience I, II.....	2 ea.
0840 455	Curriculum, Development	3
0506 310	The Management Process.....	3
0502 201, 202	Fundamentals of Accounting I, II.....	3 ea.
0501 261	Legal Environment of Business Law I.....	3
0509 340	The Marketing Process	3
0509 344	Advertising Media	3

Electives

Select 3 sh from the appropriate list to be obtained
from the department.....3

Secretarial and General Business Education

Required Courses

	Semester Hours
0838 101	Introduction to Business.....3
0838 203	Production Typewriting.....1
0838 303	Advanced Stenography and Transcription.....2
0838 309	Consumer Economics3
0838 340	Foundations of Vocational Education3
0838 403	Principles and Methods of Teaching Stenography1
0838 406	Office Services and Procedures — Clerical.....3
0838 407	Office Services and Procedures — Secretarial3
0838 449	Supervised Business Work Experience2
0845 320	Business Communications3
0845 308	Principles of Office Management or The Management Process.....3
0502 201, 202	Fundamentals of Accounting I, II3 ea.
0501 261, 263	Legal Environment of Business I, III3 ea.
0509 340	The Marketing Process3

Electives (departmental)

Select 5 sh from the appropriate list to be obtained
from the department.....5

Retailing Merchandising and Management

Required Courses

	Semester Hours
<i>Retail Merchandising and Management Core:</i>	
0838 101	Introduction to Business.....3
0838 273	Intro to Bus Data Processing.....3
0840 208	Salesmanship.....3
0840 219	Merchandise Information2
0840 340	Practicum.....1
0840 411	Retail Store Merchandising and Management...3
0840 422	Visual Merchandising.....3
0840 423	Buying for Distribution.....2
0840 451	Supervised Work Experience I.....2
0840 452	Supervised Work Experience II2
0840 482	The Independent Owned and Franchised Retailer3
0840 483	Seminar in Retail Merchandising and Management3
0501 310	The Management Process3
0501 315	Organization Behavior3
0502 201	Fundamentals of Accounting I.....3
0502 202	Fundamentals of Accounting II.....3
0501 261	Legal Environment of Bus Law I3
0509 340	Marketing Process3
0509 344	Advertising Media3
0509 446	Marketing Strategies3
0509 442	Marketing Research.....3

Electives (general)

Select 25 sh from the appropriate list to be obtained
from the department.....25

Teacher Certification

Students wishing certification must be accepted into the Teacher Education program. They must also follow the professional sequence outlined both in this department and the Teacher Education program. See the department of Curriculum and Teaching for admission requirements.

Office Systems Administration Major

This is a concentration in Business Administration offered through the department of Business Education and Office Systems Administration.

Required Courses

	Semester Hours
0838 101 Introduction to Business.....	3
0838 334 Introduction to Business Data Processing.....	3
0838 335 Computer Applications of Office Systems.....	3
0838 406 Office Management and Procedures — Clerical.....	3
0845 308 Principles of Office Management.....	3
0845 320 Business Communications.....	3
0845 321 Records Management.....	3
0845 409 Word Processing Management.....	3
0845 430 Seminar in Office Systems Administration.....	3
0501 310 Management Process.....	3
0501 315 Organizational Behavior.....	3
0501 316 Human Resource Management.....	3
0501 439 Business Policy.....	3
0502 201, 202 Fundamentals of Accounting I, II.....	3 ea.
0504 321 Fundamentals of Finance.....	3
0501 261 Legal Environment of Business I.....	3
0509 340 The Marketing Process.....	3

Collateral Courses

1701 109 Statistics.....	3
2204 101 Principles of Economics (Macro).....	3
2204 102 Principles of Economics (Micro).....	3

Electives (major)

Select 6 sh from the appropriate list to be obtained from the department.....6

Electives (general)

Select 22 sh from the appropriate list to be obtained from the department.....22

Courses of Instruction

B 0838 101
INTRODUCTION TO BUSINESS 3.0
The functions of business, bank services, credit, insurance, forms of business organization, location and layout, purchasing and stock control, production problems, finance and personnel problems.

B 0838 103
BEGINNING TYPEWRITING 2.0
For students with no previous instruction. Learning to touch typewrite using the typewriter as a communications tool in the preparation of basic letters, reports, tables and other applications.

B 0838 104
INTERMEDIATE TYPEWRITING 2.0
Increasing speed with accuracy: applying skill in the production typewriting of business-related projects; extending competency to qualify for office employment.
Pre-requisites: B 0838 103.

B 0838 203
PRODUCTION TYPEWRITING 1.0
Taken in conjunction with methods of teaching typewriting. The technicalities of typewriting procedures; vocational competency in production typewriting.
Pre-requisites: B 0838 104.

B 0838 205
BEGINNING STENOGRAPHY 3.0
The theory of Gregg Series 90 Stenography. Learning to read shorthand fluently and to take dictation on familiar material.

B 0838 206
INTERMEDIATE STENOGRAPHY AND TRANSCRIPTION 3.0
Gregg Stenography Theory reviewed; unfamiliar dictation given at moderate speeds; vocabulary building; transcription techniques.
Pre-requisites: B 0838 205.

B 0838 273
INTRODUCTION TO BUSINESS DATA PROCESSING 3.0
The literature and vocabulary of business data processing input and output media types of equipment, installations, job analysis and systems development. From basic manual procedures to modern computer concepts, including business problem programming in the COBOL language.
Pre-requisites: U 0502 201 Majors only.

B 0838 303
ADVANCED STENOGRAPHY AND TRANSCRIPTION 2.0
Taken in conjunction with methods of teaching shorthand. The transcription of shorthand notes into typewritten copy. Sentence structure, correct grammar, spelling and good typewriting techniques; increasing dictation speed for new material as the course progresses.
Pre-requisites: B 0838 206.

B 0838 309
CONSUMER ECONOMICS 3.0
The role of the consumer in the economy in studied by emphasizing how government and business policies, laws, and practices affect the consumer and his standard of living. Government regulatory laws and regulations, government policies on the control of money and inflation and how they affect the consumers are discussed. Business and labor policies and practices are emphasized in the areas of credit, savings, and housing.

B 0838 310
CONSUMER FINANCE 3.0
The following areas are studied with emphasis on informing the students on how business and government policies and practices affect their standard of living: taxes, insurance, securities, and estate planning.

B 0838 335
COMPUTER APPLICATIONS OF OFFICE SYSTEMS 3.0
Focus will be on the functions of the computer in office systems. The business education student will study basic elements of the COBOL computer language and utilize this knowledge in solving problems common to the office management setting. Laboratory problems will concentrate on the design, utilization, interpretation, and evaluation of computer applications to functions of the office manager.
Pre-requisites: B 0838 273 Majors only.

B 0838 340

FOUNDATIONS OF VOCATIONAL EDUCATION FOR BUSINESS AND DISTRIBUTIVE EDUCATION. 3.0

Professional course for Junior business/distributive education majors. Students will be exposed to vocational programs which are currently found in the secondary school setting, with emphasis on practices and principles of business and distributive education curriculum and priorities. Student observation in public schools will be an intricate part of the course.

B 0838 390

BUSINESS INDEPENDENT STUDY I 2.0

Each student, under the guidance of a faculty sponsor, conducts an in-depth study of a current problem in the business education field and presents a written report of the findings. Admission by application submitted to the department chairperson.

B 0838 391

BUSINESS INDEPENDENT STUDY II 2.0

Each student, under the guidance of a faculty sponsor, is to conduct an in-depth study of a current problem in the business field. A written report of the findings of the study is to be presented. Admission is by application submitted to the department chairperson.

B 0838 401

PRINCIPLES AND METHODS OF TEACHING GENERAL BUSINESS 2.0

The methodology of teaching social business subjects, including general business, business law and consumer education. Content, lesson planning, visual aids and evaluation procedures.

Pre-requisites: 12 credits of general business courses.

B 0838 402

PRINCIPLES AND METHODS OF TEACHING ACCOUNTING 2.0

The history and development of accounting instruction and materials, aims and objectives in light of current trends. Textbook selection, lesson planning, classroom procedures, tests and measurements, audio-visual and other teaching aids. A test of subject matter competency is required.

Pre-requisite: 12 credits of accounting.

B 0838 403

PRINCIPLES AND METHODS OF TEACHING STENOGRAPHY 1.0

Complements B 0838 303 and is designed to prepare secretarial teachers for the teaching of stenography and transcription. Comprehensive coverage of the material and methods for teaching stenography.

Pre-requisites: B 0838 206.

B 0838 404

PRINCIPLES AND METHODS OF TEACHING TYPEWRITING 1.0

Complements B 0838 204 and deals with the techniques of teaching beginning and advanced typewriting; emphasis on the psychology of skill development.

Pre-requisites: B 0838 203.

B 0838 406

OFFICE SERVICES AND PROCEDURES — CLERICAL 3.0

Exploring current office equipment, trends and techniques. Hands-on operation of business equipment, including calculators, duplicators, dictators/transcribers and special typewriters.

B 0838 407

OFFICE SERVICES AND PROCEDURES — SECRETARIAL 3.0

For prospective teachers of secretarial studies. The secretary's role in the modern office environment. Executing long-range projects, working in team situations and experiencing hands-on operation of duplicating, transcription, dictation and special typewriters.

Pre-requisites: B 0838 406, B 0838 203, B 0838 206.

B 0838 420

FIELD STUDIES FOR BUSINESS EDUCATION 2.0

Observation of many facets of business operations in representative firms. Evaluation of organization, procedures and equipment of each company visited.

B 0838 449

SUPERVISED BUSINESS WORK EXPERIENCE 2.0

An opportunity to work full time in a business position for ten weeks of the summer under college supervision. Weekly seminar to discuss problems related to the work experience program.

B 0838 480

TOUCH SHORTHAND IN RECORDING COMMUNICATION 2.0

Keyboard reaction patterns and theory concepts of the touch shorthand machine; developing basic skills and a knowledge of the machine's operation. Methods of presentation and organizing and evaluating a course in touch shorthand.

B 0840 208

SALESMANSHIP 3.0

Fundamentals: some of the concepts of the behavioral sciences and finance, as well as marketing. The functions of the industrial salesman; the retail salesman. Student sales demonstrations apply the theories of selling.

B 0840 249

MERCHANDISE INFORMATION 2.0

Textile and non-textile information; background and selling information needed in retailing. Standards for determining quality of products and a knowledge of how to care for them. Manufacturing processes of various products.

B 0840 348

PRACTICUM IN DISTRIBUTIVE EDUCATION I 1.0

Junior professional experience for distributive education majors. Observation of distributive education classes and DECA activities. Teaching distributive subjects in community programs and governmental agencies.

Pre-requisite: Acceptance in teacher education program in distributive education.

B 0840 349

PRACTICUM IN DISTRIBUTIVE EDUCATION II 1.0

Students select an educational setting from their observations in Practicum I. Concentration in the setting gives insight into the role of a distributive education teacher, the program and the students. Work on DECA activities at the collegiate level.

B 0840 411

RETAIL STORE MERCHANDISING AND MANAGEMENT 3.0

Problems involved in the successful operation of a retail organization, preparation of the store for business, movement of merchandise from resource to store, preparation of merchandise for sale, movement of goods to the selling floor and to the customer.

B 0840 422
VISUAL MERCHANDISING 3.0
 Principles and elements of color, line, form, texture and space as they relate to displays, merchandising and advertising. Display space, lighting arrangements, improvisation of display equipment, the use of paper mache forms, seasonal displays, equipment and care of display fixtures.

B 0840 423
BUYING FOR DISTRIBUTION 2.0
 Functions of the merchandising division; the buyer and merchandising problems. Also customer demand analysis, comparison shopping, planning the buyer's budget. Buying fashions, staples for independent, chain and resident buying offices, and foreign buying.

B 0840 450
SUPERVISED WORK EXPERIENCE AND SEMINAR I 2.0
 Full-time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited-price variety store. Weekly evening seminar on store activities and the development of executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer, following sophomore and junior years.
Pre-requisites: B 0804 208, F 0509 341 Majors only.

B 0840 451
SUPERVISED WORK EXPERIENCE AND SEMINAR II 2.0
 Full time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited price variety store, weekly evening seminar on store activities and the development executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer following sophomore and junior years.
Pre-requisites: B 0840 208, F 0509 341.

B 0840 454
PRINCIPLES AND METHODS OF TEACHING
DISTRIBUTIVE EDUCATION AND COORDINATION 3.0
 Federal legislation as it relates to the program; coordinator's duties; methods of teaching store subjects; lecture and demonstrations in teaching forms, reports and manuals; planning the lesson; human relations for store personnel; visual aids; textbook evaluation; trade journal use; and the DE club as a teaching device.
Pre-requisites: B 0840 455

B 0840 455
CURRICULUM DEVELOPMENT 3.0
 Objectives of distributive education; organizing, administering, planning and supervising a complete cooperative program. Organization of vocational education on the federal, state and local levels; developing vocational competencies in curriculum; evaluation of curriculum; surveys of community and student needs; physical equipment requirements; advisory committees; and the use of public relations and extension programs.

B 0840 482
THE INDEPENDENT OWNED AND FRANCHISED
RETAILER 3.0
 The principles and problems related to the independent and franchised retailer are discussed in theoretical and practical perspective. Lecture, research and case problems will integrate all steps from starting the business to evaluating the problems related to the business.
Pre-requisites: B 0840 423.

B 0840 483
SEMINAR IN RETAIL MERCHANDISING AND
MANAGEMENT 3.0
 Advanced problems in retail merchandising are covered. Lectures, research, visiting experts and case problems will integrate all previous courses taught. Strong emphasis will be placed on fashion and the computer on today's retail scene.
Pre-requisites: B 0840 411, B 0840 482.

B 0845 207
WORD PROCESSING APPLICATIONS 3.0
 Enables students to develop competencies in handling word processing equipment by means of hands-on experiences using automated typewriters, text-editing equipment, and machine dictation/equipment. Simulation projects will be utilized to integrate the origination, workflow, work measurement, storage, and distribution procedures unique to word processing environments.
Pre-requisites: V 0838 104 Majors only.

B 0845 308
PRINCIPLES OF OFFICE MANAGEMENT 3.0
 A study of the most acceptable methods and practices of office administration. Topics include organization and planning of office systems, leadership and human relations, controlling operations and processing of information. Emphasis throughout the course will be on achieving satisfactory human relations and continuous cost reduction.

B 0845 309
WORD PROCESSING MANAGEMENT 3.0
 An understanding of the need and effect of word processing on business productivity. Word processing systems will be investigated with emphasis on personnel, equipment needs, and cost savings.

B 0845 320
BUSINESS COMMUNICATIONS 3.0
 Designed to enrich writing skills for communicating in business environments and formats. Dictation equipment is utilized.

B 0845 321
RECORDS MANAGEMENT 3.0
 Includes study of the criteria and methods by which records are created, stored, retrieved, retained and disposed, as well as attention to study of the managerial considerations necessary for effective selection and utilization of equipment, procedures, and personnel.

B 0845 410
MICROGRAPHICS 3.0
 This course is designed to introduce students to Micrographics and its applications in the business office. Basic concepts, terminology, and systems design and management will be emphasized.
Pre-requisite: B 0845 321

B 0845 430
SEMINAR IN OFFICE SYSTEMS ADMINISTRATION 3.0
 Current developments in office systems administration will be investigated by student research teams in contemporary administrative office environments. Emphasis will be on helping students develop investigative and analytical skills.

Chemistry

Chairperson: John L. Isidor

A student who chooses the chemistry major can prepare for graduate study in chemistry or bio-chemistry, professional employment, professional education in fields related to science, or teacher certification. The courses meet the undergraduate criteria established by the American Chemical Society (ACS). The chemistry major is included in the ACS list of approved programs. The student can complete ACS requirements and be certified to the Society upon graduation.

The curriculum is designed for students who had high school chemistry, biology and physics, as well as four years of high school mathematics.

The department sponsors a challenging honors program for chemistry majors with outstanding academic records (at least 3.70 GPA). Those interested should see the department chairperson for information.

A Bachelor of Science degree is awarded to graduates in the chemistry major.

Chemistry Major

Required Courses

	Semester Hours
1905 120, 121 General Chemistry I, II	8
1905 230, 231 Organic Chemistry I, II	6
1905 232, 233 Experimental Organic Chemistry I, II	4
1905 310 Analytical Chemistry	5
1905 311 Instrumental Methods of Analysis	5
1905 340, 341 Physical Chemistry I, II	6
1905 342, 343 Experimental Physical Chemistry I, II	4

Collateral Courses

Select three Mathematics courses from:

1701 122, 221, 222	Calculus I, II, III	
1701 240	Differential Equations	12
1902 101 and 102	General Physics I, II	8

Electives (major)

Select one course from the appropriate list to be obtained from the department.

Chemistry Minor

Required Courses

	Semester Hours
1905 120, 121 General Chemistry I, II	8
1905 230, 231 Organic Chemistry I, II	6
1905 232, 233 Experimental Organic Chemistry I, II	4

Select one set

1905 310	Analytical Chemistry	5
1905 340, 342	Physical Chemistry I, and Experimental Physical Chemistry I	5
1905 423, 422	Advanced Inorganic Chemistry and Experimental Inorganic Chemistry	6
or		
1905 470, 472	Biochemistry, Experimental Biochemistry	5

Special Program Requirements

American Chemical Society Certification

In addition to taking the course requirements in the chemistry major as detailed in the preceding sections, a student who wishes to fulfill the minimum requirements for professional training of the American Chemical Society should elect the following courses:

Select Two

1905 423	Advanced Inorganic Chemistry	3
and 1905 422	Experimental Inorganic Chemistry	3
1905 470	Biochemistry	3
and 1905 472	Experimental Biochemistry	2
1905 440	Physical Chemistry, III	3
1905 490	Selected Topics in Chemistry*	3

Select One (not taken above)

1905 410	Advanced Quantitative Analysis	4
1905 423	Advanced Inorganic Chemistry	3
1905 430	Advanced Organic Chemistry	3
1905 440	Physical Chemistry, III	3
1905 470	Biochemistry	3
1905 490	Selected Topics in Chemistry*	3

Select One

1905 498	Senior Laboratory	3
1905 499	Undergraduate Research	3

*Requires prior approval of Chemistry Chairman.

The learning of certain other skills may be essential in an undergraduate chemistry program. This decision must be made by the student and his advisor. Included in this group are:

Foreign Language: a reading knowledge of German, Russian or French.

Mathematics: Linear algebra.

Computer Science: programming ability in BASIC and FORTRAN.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching. In addition, for the Comprehensive Science and Physical Science certificates one biology course and 0834 0401 The Teaching of Science in Secondary Schools must be taken.

Second Teaching Field in Physical Science

Students majoring in a field other than chemistry and who desire certification in chemistry may take the physical science program. In addition to the certification program in their major field, the students must take the following courses:

1902 101, 102	General Physics I, II	8
Physics Elective		4
1905 120, 121	General Chemistry I, II	8
1905 230, 232	Organic Chemistry I and Experimental Organic Chemistry I	5

Courses of Instruction

X 1905 100
INTRODUCTORY CHEMISTRY 3.0
A non-laboratory survey course in modern chemistry for non-science majors.

X 1905 107
COLLEGE CHEMISTRY I 2.0
Introductory chemistry course for non-science majors. Fundamentals of inorganic, organic and biochemistry.

X 1905 108
COLLEGE CHEMISTRY II 2.0
Introductory chemistry course for non-science majors. Fundamentals of inorganic, organic and biochemistry. A sequential six credit course.
Pre-requisites: X 1905 107.

X 1905 109
COLLEGE CHEMISTRY LABORATORY I 1.0
Laboratory work to reinforce basic concepts of general chemistry. Two hour laboratory.
Concurrent with X 1905 107.

X 1905 110
COLLEGE CHEMISTRY LABORATORY II 1.0
Laboratory work to reinforce basic concepts of organic chemistry and biochemistry. Two hour laboratory.
Concurrent with X 1905 108.

X 1905 120
GENERAL CHEMISTRY I 4.0
Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to atomic and molecular structure, bonding, thermochemistry, kinetics, chemical equilibrium, electro-chemistry, and selected topics. Laboratory stresses techniques and data treatment and their use in examining chemical systems.
Pre-requisites: Permission of instructor or previous chemistry course.

X 1905 121
GENERAL CHEMISTRY II 4.0
Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to atomic and molecular structure, bonding, thermochemistry, kinetics, chemical equilibrium, electro-chemistry and selected topics. Laboratory stresses techniques and data treatment and their use in examining chemical systems.
Pre-requisites: X 1905 120.

X 1905 130
FUNDAMENTALS OF ORGANIC CHEMISTRY 4.0
Survey of organic chemistry covering all major classes, nomenclature, and characteristic class reactions. (3 hr. lecture, 3 hr. laboratory).
Pre-requisites: X 1905 107 or equivalent.

X 1905 195
PROBLEM SOLVING-GENERAL CHEMISTRY 1.0
Course designed to help students in application of elementary arithmetic with emphasis on individual needs.

X 1905 230
ORGANIC CHEMISTRY I 3.0
Modern concepts of the chemistry of aliphatic and aromatic carbon compounds, their preparation, isolation, reactions and properties.
Pre-requisite: X 1905 121.

X 1905 231
ORGANIC CHEMISTRY II 3.0
Modern concepts of the chemistry of aliphatic and aromatic carbon compounds, their preparation, isolation, reactions and properties.
Pre-requisite: X 1905 230.

X 1905 232
EXPERIMENTAL ORGANIC CHEMISTRY I 2.0
A laboratory course to be taken concurrently with X 1905 230. Basic laboratory techniques and experiments in organic chemistry.
Pre-requisite: X 1905 121.

X 1905 233
EXPERIMENTAL ORGANIC CHEMISTRY II 2.0
A laboratory course to be taken concurrently with X 1905 231. Basic laboratory techniques and experiments in organic chemistry.
Pre-requisite: X 1905 232.

X 1905 270
FUNDAMENTALS OF BIOCHEMISTRY 5.0
Structure and function of the biomolecules and the metabolic interrelationships in the cell. 4 hrs. lecture, 3 hrs. laboratory.
Pre-requisite: X 1905 130.

X 1905 310
ANALYTICAL CHEMISTRY 5.0
Introduction to concepts of classical analytical chemistry including evaluation of data and apparatus, theory and application of volumetric and gravimetric and methods and redox equilibrium and introduction to electrical methods.
Pre-requisites: X 1905 231, 1905 233.

X 1905 311
INSTRUMENTAL METHODS OF ANALYSIS 5.0
Introduction to application of instrumental methods of analytical chemistry. Instrument techniques studied will include spectrophotometry, electroanalytical chemistry, chromatography, nuclear magnetic resonance and mass spectrometry. Theory and application will be examined in lecture and laboratory.
Pre-requisite: X 1905 310.

X 1905 340
PHYSICAL CHEMISTRY I 3.0
Thermodynamics, homogeneous and heterogeneous equilibria, gases, electrochemistry, solutions, colligative properties.
Pre-requisites: X 1905 231, Z 1902 102, Y 1701 222.

X 1905 341
PHYSICAL CHEMISTRY II 3.0
Kinetics, photochemistry, molecular physical chemistry.
Pre-requisites: X 1905 340, Z 1902 102, Y 1701 222.

X 1905 342
EXPERIMENTAL PHYSICAL CHEMISTRY I 2.0
A laboratory course to be taken concurrently with X 1905 340. Application and experience with modern techniques of physical chemistry.
Pre-requisites: X 1905 231, Z 1902 102, Y 1701 222.

X 1905 343
EXPERIMENTAL PHYSICAL CHEMISTRY II 2.0
A laboratory course to be taken concurrently with X 1905 341. Application and experience with modern techniques of physical chemistry.
Pre-requisites: X 1905 340, X 1905 342, X 1905 341.

- X 1905 392
SCIENTIFIC GLASS BLOWING 1.0
Course provides student with an opportunity to develop the ability to readily perform the basic manipulations of laboratory (not studio) glass blowing. Emphasis placed on practicing techniques which will enable the student to construct and repair scientific equipment of simple design. Limited to 10 students. Seniors will be given preference.
- X 1905 410
ADVANCED QUANTITATIVE ANALYSIS 4.0
Extends methods of analysis in X 1905 311. Absorption and emission spectroscopy, photometry, NMR, ESR, GC, thermoanalysis, polarography, amperometry and principles of automatic analysis.
Pre-requisites: X 1905 311, X 1905 341.
- X 1905 411
WATER ANALYSIS AND PURIFICATION 3.0
Modern chemical and biological techniques utilized in analysis and purification of water.
Pre-requisites: X 1905 310.
- X 1905 415
MODERN CHEMISTRY I 3.0
Course offers a survey of fundamental principles of chemistry and study of recent developments. Emphasis on structures of chemical species, particularly the relationships of these structures to the chemical and physical properties of substance. Prerequisite open to NSF participants only.
- X 1905 416
MODERN CHEMISTRY II 3.0
Course offers a survey of fundamental principles of chemistry and study of recent developments. Emphasis on structures of chemical species, particularly the relationships of these structures to the chemical and physical properties of substance. Prerequisite open to NSF participants only.
- X 1905 422
EXPERIMENTAL INORGANIC CHEMISTRY 3.0
Practical experience utilizing a broad selection of modern techniques for the synthesis and characterization of inorganic compounds.
Pre-requisites: X 1905 340.
- X 1905 423
ADVANCED INORGANIC CHEMISTRY 3.0
Physical basis of inorganic structure and reactivity. Electronic structure of atoms, ionic and covalent bonding, acid/base chemistry, the chemistry of aqueous and nonaqueous solutions, coordination chemistry and chemical periodicity.
Pre-requisites: X 1905 340, Y 1701 216.
- X 1905 430
ADVANCED ORGANIC CHEMISTRY 3.0
Consideration of structural and electronic theories which form the basis of organic chemistry.
Pre-requisite: X 1905 231.
- X 1905 440
PHYSICAL CHEMISTRY III 3.0
Quantum mechanics, bonding theory, atomic structure, statistical thermodynamical calculations.
Pre-requisites: Y 1701 420, Y 1701 315.
- X 1905 445
RADIOCHEMISTRY 3.0
Introduction to radioactive decay, nuclear structure, interactions of radiations with matter, nuclear reactions and energetics. Emphasis on applications of radioactive materials to chemical studies and chemical analysis of nuclear systems.
Pre-requisite: X 1905 340.
- X 1905 447
BIOPHYSICAL CHEMISTRY 3.0
Thermodynamics, equilibria, transport processes, kinetics, and electrochemistry as applied to cellular processes.
Pre-requisites: X 1905 470 or W 0401 444, Y 1701 117.
- X 1905 460
INDUSTRIAL CHEMISTRY 4.0
Survey of chemical industry involving lectures and plant visits. (Not given every summer)
Pre-requisites: X 1905 232
- X 1905 470
BIOCHEMISTRY 3.0
Proteins, enzymes, nucleic acids, carbohydrates, lipids, organization of the living cell, intermediate metabolism and biosynthesis.
Pre-requisite: X 1905 231.
- X 1905 472
EXPERIMENTAL BIOCHEMISTRY 2.0
Laboratory studies of carbohydrates, lipids, and proteins, enzyme action, using biochemical techniques. Opportunity is provided for individual projects.
Pre-requisites: X 1905 231 or X 1905 470.
- X 1905 490
SELECTED TOPICS IN CHEMISTRY 2-3
In-depth study of a modern aspect of chemistry.
Pre-requisites: X 1905 231, Instructor's permission.
- X 1905 491
HONORS SEMINAR IN CHEMISTRY 2.0
Seminars and discussions on selected areas in chemistry under faculty guidance for students enrolled in the honors program in chemistry.
Pre-requisites: Admission to the honors program in chemistry or permission of the chemistry honors committee.
- X 1905 492
HONORS THESIS IN CHEMISTRY 2.0
Preparation and oral presentation of a comprehensive written thesis in chemistry under guidance of a faculty mentor for completion of the honors program in chemistry.
Pre-requisites: X 1905 491.
- X 1905 495
THE CHEMICAL LITERATURE 1-2
The chemical literature and techniques of extracting information from it.
- X 1905 498
SENIOR LABORATORY 3.0
Multi-disciplinary laboratory study of the synthesis, separation, and characterization of chemical compounds.
Pre-requisites: X 1905 311, X 1905 341, X 1905 343.
- X 1905 499
UNDERGRADUATE RESEARCH 1-3
Laboratory work on a specific problem in chemistry under guidance of a faculty sponsor.
Pre-requisite: 27 hrs. in chemistry and permission of instructor.

X 1999 414

CHEMICAL OCEANOGRAPHY

4.0

The study of the chemical constituents of seawater, their properties and interactions at the air-sea substrate interfaces. Sampling and analytic techniques. Also offered at the site of the New Jersey Marine Sciences Consortium. Prerequisite one semester of general oceanography, one year of freshman level chemistry, one year of organic chemistry, and some background in quantitative analysis and physical chemistry.

Latin Major**Required Courses**

1110 101, 112 Beginning Greek I, II	6
6 Latin literature courses*	18

Electives (Major)

Select 3 from department course list	9
--	---

**Latin Major
(Teacher Education)****Required Courses**

6 Latin literature courses*	18
1109-0419 Methods of Teaching Latin	3

Electives (major)

Select 4 from department course list; Beginning Greek is recommended	12
---	----

*Latin literature courses are taught in a 4 year cycle.

Classics

Chairperson: Timothy Renner

Classical studies provide an excellent foundation for careers in law, business, diplomacy, journalism, archaeology and many other professions. There are three major programs in the department leading to the Bachelor of Arts degree: Classics, the study of Greek and Roman civilization with some work in Greek and Latin language, Latin, and Latin-Teacher Education, which leads to teacher certification in New Jersey. An 18 sh minor can be taken in all three areas.

Students majoring in other studies can profit from a knowledge of ancient civilization and of Greek and Latin. A basic familiarity with the languages, as well as Greek and Roman literature, ancient history or classical archaeology may shed new light on one's own specialization. The courses taught in English are of special interest to the general student and serve to fulfill the humanities (and, in some cases, the social science) requirement in General Education.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching.

Second Teaching Field in Latin

Students will choose 8 courses from the offerings in Latin literature.

Latin Minor

18 sh are required in Latin literature and language. Courses will be chosen in consultation with department chairperson.

Greek Minor

18 sh are required in Greek literature and language. Courses will be chosen in consultation with the department chairperson.

Classics Major**Required Courses****Semester Hours**

4903 281 Greek Civilization	3
4903 282 Roman Civilization	3
Select 5 language courses from Latin (1109) and Greek (1110), e.g., 3 Latin, 2 Greek. Include at least one advanced course in Latin or Greek literature	15

Electives (major)**Semester Hours**

Select 12 sh from the appropriate list to be obtained from the department. (1 course in literature or ideas and 2 courses at 300 or 400 level) Choose related courses from other departments, e.g. Greek Art, Ancient Philosophy	12
---	----

Classics Minor

18 sh taken in the classics department are required. All the work may be done in classical humanities courses or the student may pursue with departmental consultation work in Greek and Latin language.

Courses of Instruction

K 1109 101 BEGINNING LATIN I	3.0
Introduction to the structure of the Latin language through observation of the pattern as it appears in sententiae and passages of connected reading material. Acquisition of basic language skills through practice of the patterns of the language.	

- K 1109 112
BEGINNING LATIN II 3.0
 Introduction to the structure of the Latin language through observation of the pattern as it appears in sententiae and passages of connected reading material. Acquisition of basic language skills through practice of the patterns of the language.
- K 1109 132
READINGS IN LATIN PROSE AND POETRY 3.0
 Latin selections arranged by theme to present the development of Roman history and civilization from Aeneas to Augustus. Opportunity to observe the structure of the Latin language in passages of connected reading.
- K 1109 121
READINGS IN LATIN PROSE AND POETRY 3.0
 Latin selections arranged by theme to present the development of Roman history and civilization from Aeneas to Augustus. Opportunity to observe the structure of the Latin language in passages of connected reading.
- K 1109 251
ROMAN LETTER WRITING 3.0
 The public figure of the late republic and the private citizen of the silver age seen through the letters of Cicero and Pliny.
- K 1109 252
ROMAN DRAMA 3.0
 Reading of comedies of Plautus and Terence with attention to the authors' influence on the development of the drama.
- K 1109 253
THE EPIC AND VERGIL 3.0
 Depth study of the Aeneid, Books I-VI. Readings from VII-XII.
- K 1109 254
ROMAN LYRIC POETRY 3.0
 Selections from the lyrics of Catullus and Horace, with particular attention to the differences in theme, content, metrics.
- K 1109 255
OVID 3.0
 The Metamorphoses as a primary source of information about Roman religion, ritual and myth. Selections from Ovid's other works in original and translation. Observation of his role as a model in later literature.
- K 1109 261
ROMAN BIOGRAPHY 3.0
 The biography as a genre. Selected passages from Sallust, Tacitus, Suetonius. Contrasting these works with autobiographical evidence from the letters and excerpts of other Latin authors.
- K 1109 284
CICERO AND ANCIENT PHILOSOPHY 3.0
 Cicero's philosophical essays with special attention to Cicero's role as a transmitter of Greek philosophy to the Roman world.
- K 1109 310
LATIN COMPOSITION 2.0
 Development of Latinity in writing. Practice in imitation of word choice, word order and style of Latin authors. Translation of contemporary material into period Latin.
- K 1109 351
ROMAN HISTORIANS 3.0
 The history of Rome through the writings of Livy and Tacitus.
- K 1109 352
ROMAN SATIRE
 Reading of Horace and Juvenal and discussion of the satire as a genre of reporting.
- K 1109 354
THE ELEGY 3.0
 The Roman elegiac poets, Tibullus and Propertius. The elegy as a form of poetic expression. Comparison of the elegy in Latin and English literature.
- K 1109 361
CAESAR: THE END OF THE REPUBLIC 3.0
 Reading from De Bello Gallico and De Bello Civili with attention to Caesar the General, the Statesman, the man of letters, the turbulence attending the end of the Republic.
- K 1109 375
STUDY ABROAD 3.0
 Approved study-travel program at selected universities, classical sites, museums. (Also listed as K 4903 375) credit by evaluation,
- K 1109 410
ADVANCED LATIN GRAMMAR 3.0
 Descriptive analysis of Latin grammar based on generative-transformational linguistics. Examples from the classical authors. Practice in writing original Latin prose.
- K 1109 419
METHODS OF TEACHING LATIN 3.0
 History of methodology, new approaches and techniques, evaluation of texts, construction of lesson plans, reviews, tests, and the development of a Latin curriculum.
- K 1109 445
LINGUISTIC HISTORY OF THE LATIN LANGUAGE 3.0
 Latin and its position in the Indo-European family. The evolution from the spoken to the literary, to the vulgar, to the Christian. Characteristics of the periods exemplified in the language. Transitional features in the phonology, morphology, and syntax.
- K 1109 451
LATIN OF THE MIDDLE AGES 3.0
 The transition of the language from classical to romance literature of church and state in the evolution of modern western ideas.
- K 1109 452
AUGUSTINE 3.0
 Selections from the Confessions, the City of God and the letters. Intellectual development and philosophical and theological speculations of Augustine in the framework of the late Roman empire.
- K 1109 454
LUCRETIUS AND ANCIENT SCIENCE 3.0
 Reading of De Rerum Natura with study and discussion of the relation of science and philosophy in antiquity. Greek schools of thought and Roman interpretation of Hellenistic ideas.
- K 1109 470
SENIOR SEMINAR 3.0
 Independent study pursued on a theme in depth by contractual arrangement.
- K 1109 478
ADVANCED LATIN READINGS 2.0
 Reading selections, in the original, representing an author, a genre, a period, or a theme complementing previous course offerings. Critical reading a prime function.

K 1110 101
BEGINNING GREEK I 3.0
 The grammatical fundamentals of ancient classical Greek to prepare the student to read Greek literature.

K 1110 112
BEGINNING GREEK II 3.0
 The grammatical fundamentals of ancient classical Greek to prepare the student to read Greek literature.

K 1110 261
GREEK NEW TESTAMENT 3.0
 Selected readings in the Greek Koine from the Bible.

K 1110 262
GREEK EPIC POETRY 3.0
 Selected readings from the Iliad and/or Odyssey and the ancient summaries of other poems in the Trojan cycle of the epic. Supplementary reading in translation. Study of the Homeric question.

K 1110 310
GREEK COMPOSITION 3.0
 The finer points of style and grammar and an ability to handle the Greek idiom, as much as possible, in a non-translation situation readings of selected Greek literary and non-literary models.
Pre-requisite: Instructor's permission.

K 1110 351
ATTIC ORATORS 3.0
 Greek history and thought from the attic orators: Antiphon, Andocides, Lysias, Isocrates, Isaeus. Supplemental readings in the original or translation from Demosthenes.

K 1110 352
GREEK TRAGEDY 3.0
 The origin and development of this most important of all Greek genres through original readings from the major representatives of this form: Aeschylus (Persae of Prometheus Vincutus), Sophocles (Antigone, Ajax or Philoctetes), Euripides (Alcestis, Medea, Bacchae or Hippolytos.) Readings in literary translations. Attention to influences upon other literatures.

K 1110 361
GREEK HISTORIANS 3.0
 Greek history and historiography through intensive but selected readings from the two major historians Herodotus and Thucydides. Supplementary readings from Xenophon's Anabasis or Hellenica. Supplementary readings in translation

K 1110 451
GREEK PHILOSOPHERS 3.0
 The development of Greek philosophy from rapid readings in translation and original. Emphasis on pre-Socratics platonic dialogues (Apology, Phaedo, Republic) and Aristotle's essays (Poetics, et al) Supplementary readings in translation.

K 1110 452
GREEK LYRIC POETS 3.0
 Readings from the corpus of lyric, iambic and elegiac poets. Development in theme, technique, meter. Influences on later literatures.

K 1110 454
HESIOD 3.0
 Readings from the Theogony and the works and days. Study of the archaic period of Greek civilization. The structure and meaning of the Hesiodic literature.

K 4903 154
OVID 3.0
 The Metamorphoses as a primary source of information about Roman religion, ritual and myth selections from Ovid's other works in original and translation observation of his role as a model in later literature.

K 4903 181
CLASSICAL ARCHAEOLOGY 3.0
 The science of evaluating a culture through observation and analysis of sites and monuments. Problems of dating, types of materials, function of buildings and decorations. Illustrated lectures, readings and discussion in addition to museum field trip.

K 4903 182
ENGLISH VOCABULARY: CLASSICAL ROOTS 3.0
 Greek and Latin Roots, prefixes, suffixes and principles of word formation give the student access to

K 4903 252
ROMAN DRAMA 3.0
 Reading of comedies of Plautus and Terence with attention to the authors' influence on the development of the drama.

K 4903 253
INTRODUCTION TO GREEK LITERATURE 3.0
 Readings in English translation from selected ancient Greek epic and lyric, drama, historiography, philosophical and scientific writings, oratory. Literary forms, themes, and trends from Homer to the Hellenistic age. Greek Literature as a mirror of Greek thought and civilization.

K 4903 254
INTRODUCTION TO ROMAN LITERATURE 3.0
 Readings in English translation from selected classical Roman epic, lyric, drama, satire, historiography, oratory, philosophical writings, novels. Literary forms, themes, and trends from Plautus to the imperial peace. Roman literature as a mirror of Roman civilization.

K 4903 273
EPIC POETRY IN CLASSICAL ANTIQUITY 3.0
 The Iliad, Odyssey and Aeneid in English translation. Ancient and modern literary criticism of Homer and Vergil. Oral vs. literary epic. Basic epic themes (man as hero, fate man and the gods, etc.). Homeric and vergilian influence on subsequent literature.

K 4903 281
GREEK CIVILIZATION 3.0
 Greece's contribution to western civilization studied through history, literature, architecture, art and sculpture.

K 4903 282
ROMAN CIVILIZATION 3.0
 Rome's assimilation of Etruscan, Greek, and oriental cultures in the process of creating her own. The planting of Roman culture and civilization along the route of the Roman army. Monuments and relics as testimony to the Roman penetration and influence.

K 4903 283
GREEK AND ROMAN ORATORY 3.0
 Oratory as a political tool training of the orator analysis of selected orations of Demosthenes and Cicero influence of ancient oratory on public speaking debate and argumentation.

K 4903 284
CICERO AND ANCIENT PHILOSOPHY 3.0
 Cicero's philosophical essays with special attention to Cicero's role as a transmitter of Greek philosophy to the Roman world.

K 4903 285
CLASSICAL MYTHOLOGY 3.0
 The classical myths repeated in the literature and other media of the western world. The origins of the myths studied through readings and art interpretations of their meaning.

K 4903 351

THE CITY IN ANTIQUITY

3.0

A study of the development of cities and city-based civilizations in the ancient classical world city life and the findings of archaeology. The city and the development of classical art, architecture, religion, education ancient town planning urban problems in antiquity crime, pollution, overcrowding.

K 4903 352

ROMAN SATIRE

3.0

Reading of Horace and Juvenal and discussion of the satire as a genre of reporting.

K 4903 375

STUDY ABROAD

3.0

Approved study-travel program at selected universities, classical sites, museums. (Also listed as K1109 375) credit by evaluation.

K 4903 381

AFRICA IN CLASSICAL ANTIQUITY

3.0

The importance of Africa in the Greco-Roman world economic, intellectual, political, and artistic contributions. Blacks and ancient institutions army, theater, sport, government, slavery. Ancient attitudes toward race. Famous Africans of antiquity.

K 4903 382

GRECO-ROMAN COLONIZATION

1.0

A sequel to Greek civilization and Roman civilization with specialization in one geographic area: Magna Graecia, Greco-Roman Spain, Gaul, Turkey, the Balkans, Roman Britain, or Germany. Mini-courses elected singly or in combination.

Pre-requisites: K 4903 281, K 4903 282.

K 4903 383

WOMEN IN ANTIQUITY

3.0

The role of women in Greek and Roman society. Classical attitudes toward sexual behavior. Women in classical mythology. Famous and liberated women of antiquity.

K 4903 384

INTRODUCTION TO ROMAN LAW

3.0

The role of law in Roman history and society, the social fabric and family structure, women and the law, slavery, agreements and contracts, legal forms, legal fictions, and the on-going development of law, the law and social change, Roman law under Christianity and afterwards.

K 4903 385

GREEK TRAGEDY

3.0

Selected plays of Aeschylus, Sophocles and Euripides read in English translation; origins of Greek Drama; religion and myth in tragedy; the tragic hero; stage production; influence on modern literature.

K 4903 396

ANCIENT HISTORIANS

3.0

Selected passages from Herodotus, Thucydides, Xenophon, Polybius, Cassius Dio, Livy and Tacitus for critical analysis. Assessing authenticity and objectivity while discussing the art of historiography.

K 4903 452

AUGUSTINE

3.0

Selection from Confessions, City of God and the letters intellectual development and philosophical and theological speculations of Augustine in frame work of the late Roman empire.

K 4903 454

LUCRETIIUS AND ANCIENT SCIENCE

3.0

Reading of De Rerum Natura with study and discussion of the relation of science and philosophy in antiquity Greek schools of thought and Roman interpretation of Hellenistic ideas.

Communication Sciences and Disorders

Chairperson: Joseph Attanasio

The undergraduate curriculum in communication sciences and disorders provides a foundation for professional specialization at the master's level. Students progress through a sequence which emphasizes the normal use and development of speech, hearing and language. Subsequent courses consider the nature of communication disorders and principles related to their management. Supervised clinical experience with children and adults presenting communication disorders is available in the on-campus Communication Disorders Center, in the public schools and at special centers and clinical facilities in the community.

The program is designed to prepare students to obtain certification by the New Jersey State Department of Education in speech correction for grades kindergarten through twelve. To that end, students are required to enter the teacher education program described in this catalog.

The master's degree is a requirement for most employment in the field of communication disorders. On completing the undergraduate curriculum, the students pursue graduate study and concentrate in speech pathology, audiology, learning disabilities or teaching the deaf and hearing impaired. The undergraduate and graduate programs in communication sciences and disorders prepare the student to fulfill the requirements for the Certificate of Clinical Competence of the American Speech and Hearing Association.

Communication Sciences and Disorders Major

Required Courses

	Semester Hours
1220 100 Fields of Communication Sciences and Disorders	3
1220 103 Fundamentals of Voice and Speech Production*.....	3
1220 104 Phonetic Study of Speech Sounds.....	3
1220 202 Acquisition of Speech and Language.....	3
1220 207 Hearing Science.....	3
1220 208 Anatomy and Physiology of the Speech System	3
1220 209 Voice and Articulation Disorders.....	3
1220 210 Development of Communication Skills in Children: Methods and Materials	3
1220 410 Neurophysiological Disorders of Communication	3
1220 411 Psychodynamics of Communication Disorders.....	3
1220 412 Diagnosis of Communication Disorders	3
1220 461 Introductory Practicum in Communication Disorders	3
1220 462 Intermediate Practicum in Communication Disorders	3
1220 464 Psychology of Oral Communication	3
1220 468 Clinical Procedures in Audiology	3

1220 469	Problems of the Hearing Impaired	3
1220 473	Organization and Administration of Speech and Hearing Programs	3
1220 483	Language Disorders of Children.....	3

*Fulfills speech communications requirement for majors.

Note: Majors are urged to take Psychology of the Handicapped to complete the state certification requirement.

Electives

Select courses from the appropriate list to be obtained from the departmental advisors.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching.

Special Education

The Council of Special Education Programs (COSEP) uniquely coordinates the five undergraduate and ten graduate programs at Montclair State College which offer preparation for a variety of special education professions. COSEP is an interdisciplinary unit that brings together the Schools of Humanities and Social Sciences, Professional Studies and Fine and Performing Arts. Because it encourages academic programs which include practical experience, COSEP maintains the Psychoeducational Center (The Center) which is located on campus.

The Center provides integrated clinical and educational experiences for those preparing to work with people who have problems in coping (life adjustment), communication (hearing, speech, language), or learning. The Center operates a speech clinic, and evaluation unit, a demonstration school for handicapped children, and a recreation program where students observe, assist and eventually practice the profession for which they are preparing.

For specific information about the academic programs, COSEP or The Center, telephone the Center's Director at 201-893-4255. The courses and programs include:

- Adaptive Physical Education
- Audiology
- Early Childhood Special Education
- Learning Disabilities
- Music Therapy (undergraduate only)
- Reading
- School Psychology
- School Social Worker
- Speech-Language Pathology
- Teacher of Deaf and Hard of Hearing
- Teacher of the Handicapped
- Teacher of the Socially and Emotionally Disturbed
- Therapeutic Recreation (undergraduate only)

Courses of Instruction

L 1220 100
FIELDS OF COMMUNICATION SCIENCES AND DISORDERS 3.0
An orientation practices in the field, philosophies of rehabilitation, areas of scientific inquiry and the relationship with other disciplines and specialties.

L 1220 103
FUNDAMENTALS OF VOICE AND SPEECH PRODUCTION 3.0
Theory and practice of efficient voice production and accurate articulation. Students receive guidance in the improvement of their own speech skills.

L 1220 104
PHONETIC STUDY OF SPEECH SOUNDS 3.0
The articulation of sounds of American English, developing an understanding of articulatory features using the international phonetic alphabet.

L 1220 200
TECHNIQUES IN CLINICAL OBSERVATION AND REPORTING 3.0
Observing, describing and reporting the behavior of clients with speech, hearing and language problems the intake interview and parent conferences.
Pre-requisites: L 1220 100

L 1220 202
ACQUISITION OF SPEECH AND LANGUAGE 3.0
The development of a first language in the child. Acquisition of syntactic, semantic, pragmatic, and phonological systems studied in a cognitive-linguistic framework.
Pre-requisites: L 1220 104

L 1220 207
HEARING SCIENCE 3.0
Basic acoustics, anatomy and physiology of the auditory mechanism, and a clinical orientation to impairments of hearing.

L 1220 208
ANATOMY AND PHYSIOLOGY OF THE SPEECH SYSTEM 3.0
The anatomical and physiological bases of respiration, phonation and articulation-resonation.

L 1220 209
VOICE AND ARTICULATION DISORDERS 3.0
Voice and articulation problems of pre-school and school-age children. Strategies, techniques and materials for evaluation and remediation.
Pre-requisites: L 1220 103, L 1220 104, L 1220 208.

L 1220 210
DEVELOPMENT OF COMMUNICATION SKILLS IN CHILDREN: METHODS AND MATERIALS 3.0
The development of oral communication skills in children within basic school curriculum. Speech improvement techniques through storytelling, creative dramatics, choral speaking and oral interpretation listening activities and content analysis.
Pre-requisites: L 1220 104, L 1220 202, L 1220 209.

L 1220 410
NEUROPHYSIOLOGICAL DISORDERS OF COMMUNICATION 3.0
Etiology and pathology of major language and speech disorders resulting from impaired functioning of the nervous system diagnosis and rehabilitation.
Pre-requisites: L 1220 104, L 1220 202, L 1220 208, L 1220 209.

L 1220 411
PSYCHODYNAMICS OF COMMUNICATION DISORDERS 3.0
Psychological aspects of communication disorders. The nature, diagnosis and treatment of stuttering in children and adults the nature of counseling and psychotherapy.
Pre-requisites: L 1220 104, L 1220 202, L 1220 209, at least 6 s.h. in psychology.

L 1220 412
DIAGNOSIS OF COMMUNICATION DISORDERS 3.0
 Formal and informal assessment procedures for the diagnosis of speech, voice and language disorders. Dynamics of interviewing and the reporting and interpreting of case histories.
Pre-requisites: L 1220 209, 410, 411, 461.

L 1220 461
INTRODUCTORY PRACTICUM IN COMMUNICATION 3.0
 Supervised clinical practice with children and adults presenting a variety of communication disorders.
Pre-requisites: L 1220 209, L 1220 210, L 1220 410, L 1220 411.

L 1220 462
INTERMEDIATE PRACTICUM IN COMMUNICATIONS DISORDERS 3.0
 Supervised clinical practice with children and adults presenting a variety of communication disorders.
Pre-requisites: L 1220 209, L 1220 210, L 1220 410, L 1220 411.

L 1220 463
ADVANCED PRACTICUM IN COMMUNICATION DISORDERS 3.0
 A continuation of 1220 461 and 462 providing a supervised experience in diagnosis and therapy with more complex and specialized communication disorders. May be taken in the Department's Communication Disorders Center and at other cooperating hospital, rehabilitation and educational facilities.
Pre-requisites: L 1220 461, 462.

L 1220 464
PSYCHOLOGY OF ORAL COMMUNICATION 3.0
 Problems of interpersonal communication leading to confusion of meaning and misunderstanding. Effects of speech, language, hearing and emotional handicaps. Primary emphasis on disordered communication as a common situation in society. Listening as an active process, and therapy activity as an ongoing communicative event as well as a goal directed process.
Pre-requisite: Junior Standing.

L 1220 465
SEMINAR IN BLACK LANGUAGE 3.0
 Survey of black language patterns and their relation to standard English in the black speech community. Application to the goals of the speech therapist in predominantly black schools. (Senior-graduate).
Pre-requisite: Course in phonetics and psycholinguistics.

L 1220 468
CLINICAL PROCEDURES IN AUDIOLOGY 3.0
 The measurement of hearing including pure tone tests, screening tests, interpretation of test results, problems of calibration, and medical and educational referral. Demonstrations and supervised practice testing.
Pre-requisites: L 1220 207.

L 1220 469
PROBLEMS OF HEARING IMPAIRED 3.0
 Current theories and practices of speech reading, auditory training, hearing aid evaluation and educational placement psychological aspects of hearing loss interviewing and counseling the parents of the hearing impaired child.
Pre-requisites: L 1220 468.

L 1220 472
SPEECH SCIENCE AND INSTRUMENTATION 3.0
 Basic acoustics, respiration and voice production, acoustic theory of vowel production, consonant acoustics and speech perception.
Pre-requisites: L 1220 104, L 1220 208.

L 1220 473
ORGANIZATION AND ADMINISTRATION OF SPEECH AND HEARING PROGRAMS 3.0
 Clinical programs in the public schools and other settings. Testing, scheduling, grouping and record-keeping. The role of the clinician in relation to administrators, teachers, specialists in related areas, parents and paraprofessionals.
Pre-requisites: L 1220 209, L 1220 210, L 1220 461.

L 1220 474
SEMINAR IN SPEECH LANGUAGE AND HEARING 1.0
 Part of professional semester. It provides an opportunity to discuss and share technical and interpersonal issues related to the delivery of speech, language and hearing services. It also provides an opportunity to develop strategies for seeking solutions to problems encountered. The course will be concurrent with student teaching.
Co-requisites: 1 0829 411 majors only.

L 1220 483
LANGUAGE DISORDERS OF CHILDREN 3.0
 Strategies for the assessment of language disorders and for the development of intervention programs.
Pre-requisites: L 1220 202.

L 1220 484
SEMINAR IN PROBLEMS AND ISSUES IN COMMUNICATION SCIENCES AND DISORDERS 2.0
 Independent study and research in selected areas of communication sciences and disorders. Enrollment limited.
Pre-requisite: Departmental approval.

New Jersey School of Conservation

Director: John J. Kirk

The New Jersey School of Conservation, the second largest environmental education center in the world, is operated for the State of New Jersey by Montclair State College through the School of Professional Studies. The 240-acre facility is located in Stokes State Forest and High Point State Park.

Through its varied programs, the School of Conservation aims to develop a reverence for life and the formation of a land ethic which will influence students for the rest of their lives.

The School's activities and facilities are designed to handle both short and long-term learning experiences. These range from two or three-day programs for 12,000 elementary and secondary school students to graduate courses for over 600 students of the state colleges, private colleges, and Rutgers — The State University. In

addition, since the School is operationally a part of Montclair State College, an increasing number of the College's curriculum planners are looking toward creating or modifying courses to be offered for Montclair State credit through the School. The School of Conservation also conducts workshops for elementary and secondary school teachers interested in teaching environmental concerns, which also earn Montclair State graduate credit. The faculty of the School have organized and developed one-day workshops for community action organizations.

Courses of Instruction

1 0843 495

WORKSHOP ON UTILIZING NATURAL ENVIRONMENTS

1.0

To provide classroom teachers in all disciplines with experiences in using the natural environment to supplement classroom experiences. Opportunity for teachers to increase their knowledge of as well as skills in the techniques of incorporating the physical, biological, and socio-cultural components of the environment in their curricula will be emphasized through the use of small group lecture sessions held in the natural environment being described. Students are provided with the opportunity of administering and experimenting in each of four such environments out of a choice ranging from 15 to 20 specific subject areas.

1 0843 496

FIELD STUDY IN HUMANITIES AND NATURAL SCIENCE

1.0

Provides teachers in varied and diversified subject areas with an understanding of how the humanities and sciences may be taught in natural environments for the purpose of developing an environmental sensitivity.

Pre-requisite: Restricted to in-service classroom teachers.

1 0843 497

FIELD STUDIES IN SOCIAL STUDIES AND OUTDOOR RECREATION

1.0

Provides an understanding of how outdoor pursuits and social studies may be taught using natural environments to develop environmental sensitivity. Does not meet resident requirement.

Pre-requisite: Restricted to in-service classroom teachers.

Counseling, Human Services and Guidance

Chairperson: Richard Grey

Counseling, Human Services, and Guidance deals with helping people understand and cope with the everyday world. In the undergraduate courses students can investigate personal values, group dynamics, career exploration and leadership training to help

build foundations for a life open to learning and enrichment. These courses are designed to serve students from varied fields and interests.

This Department also offers a Master's Degree with concentrations involved in guidance and counseling, human services, and school social work.

Courses of Instruction

2 0826 433

FACILITATING THE INTERACTIVE PROCESS I

3.0

This course is designed to provide students with the opportunity to gain understanding of how the influence of norms, leadership, peers, and other issues influence the development of a group. This will occur by observations, lectures, seminars and readings. This experience will help prepare them for working with small groups in the course facilitating the interactive process II.

Pre-requisites: 2 0842 329 Majors only, 2 0842 331 Instructor's permission, 2 0842 430.

2 0826 434

FACILITATING THE INTERACTIVE PROCESS II

3.0

This course provides the opportunity for students to gain much practical experience in leading groups. Students will be expected to co lead groups with staff members and be available to assist in all learning endeavors.

Pre-requisites: 2 0842 329, 2 0842 331, 2 0826 433.

2 0826 482

CAREER CONSCIOUSNESS

3.0

This is a course in career skills that integrates schematic human relations training and problem solving techniques with the definition of career goals. The ultimate aim is to define yourself and relate that information to the vocation you choose to pursue in life to facilitate your successful exit from college into the real world. Each student will be required to look at him/herself through functional self-analysis, write a resume, and investigate the job market in his particular field through field trips, job interviews, or readings in the field.

2 0842 113

HUMAN RELATIONS IN COMMUNITY SERVICES

3.0

Designed to explore the interrelatedness of personality, primary group, organization and culture. The concepts will be examined in light of their effect on the individual's attitudes, values, and group selections. The human relations approach to problems in community services is to examine those factors of personality, group, culture and organization which produce conflict. Course objectives include developing skills for resolving such conflict through group activities and action research.

2 0842 114

INTRODUCTION TO COMMUNITY SERVICES I

3.0

Designed to investigate the nature and function of public and private agencies in the community. Included will be a discussion of the ways in which services are made available to the public.

2 0842 327

EXPERIMENT IN COEDUCATIONAL COMMUNITY LIVING

3.0

The goal of the program is to integrate living and learning more closely by creating an atmosphere in which living is the experience that is the main source of learning. A seminar will provide the interpersonal and community skills necessary to enhance community living. Within the context of the seminar, the group will study and evaluate the process by which the community forms, through examination of the available literature and the living experience.

2 0842 329
THEORIES AND TECHNIQUES OF GROUP PROCESSES 3.0
 Course is designed to provide an understanding of the theories related to group dynamics and the ways in which the theoretical can be utilized to facilitate group processes.

2 0842 330
DYNAMICS OF ONE-TO-ONE COMMUNICATION 3.0
 This course is designed to examine the dynamics of one-to-one communication through readings and experientially. The course will further develop personal goals for optimizing personal communication and assist in establishing strategies for the attainment of these goals.

2 0842 331
GROUP DYNAMICS 3.0
 This course is a seminar laboratory experience designed to meet the needs of teachers, administrators, and supervisors in the areas of self understanding and effective human relationships. Focus is on individual behavior in learning groups and in supervisory conferences. Participation in actual group process provides opportunity for development of insight into the effects of one's behavior on others.

2 0842 332
ACTION APPROACHES TO PERSONAL AWARENESS 3.0
 Designed to increase personal awareness of students and to assist in developing skills needed to maximize individual growth in human interaction. Through the use of psychodrama and other action oriented techniques, students will have the opportunity to experience individual barriers to the realization of these goals and to develop strategies for working beyond.

2 0842 333
LEADERSHIP TRAINING 3.0
 To demonstrate what special skills and methods leaders must apply to use effective leadership.

2 0842 334
BEING A SEPARATE PERSON 3.0
 This course will deal with the central question of how to balance the need for autonomy with the need for intimacy. It will examine the issues involved in women moving out of dependency and into full, distinct identity. It will study the personal and social sources of our attitudes about relationships and the effects of certain variables on attitude change. It is the aim of the course for students to gain insight about their own behavior and needs in the light of shifting cultural standards.

2 0842 335
THE LEGAL RIGHTS OF WOMEN 3.0
 This course will include some historical background for clearer understanding of what the changes in laws mean for women and men. Discussion and study of the effect of Affirmative Action, Civil Rights legislation and Titles VI and IX will be included. Legal rights in the areas of education, employment, finances and credit, property ownership, marriage and divorce, health care, pensions and criminal law will be covered.

2 0842 420
ACHIEVEMENT MOTIVATION DEVELOPMENT PROJECT 2.0
 This course is designed to supply entering E.O.F. freshmen with information about self and environment, about what achievement is (the need or drive) and to introduce them to achievement behavior. The project further attempts to stimulate achievement behavior on the part of the student participants in simulated experiences. Participants will be personal responsibility.

2 0842 430
INTERACTION ANALYSIS 3.0
 The purpose of this course is to help participants become more objective in their observations and reporting of inter-actions which they witness or in which they participate. Various observational tools and methods will be used in the gathering of objective data on three kinds of interaction (interpersonal, small group, and classroom.)

2 0842 432
PERSONAL VALUES 3.0
 Designed to help each participant undertake a personal exploration of his own values, what they are and how he got them, and then consider alternatives available.
Pre-requisites: 2 0842 431.

Curriculum and Teaching

Chairperson: Catherine Becker

Teaching has been called the immortal profession because of the impact it has on any society. The purpose of the department of Curriculum and Teaching is the professional education of public school teachers. Its faculty coordinates the teacher education program and offers all the courses within the professional semester. Special care has been taken in the development of the undergraduate courses most of which are taught in Professional Semester Centers in selected public schools. In order to support the continuing professional growth of teachers, there are programs and courses at the graduate level.

Teacher Education Program

The teacher education program provides a sequence of professional courses and field experiences leading to teacher certification while the student majors in a particular field of interest. The graduate is certified to teach in all New Jersey Public Schools and legally qualified to teach in other member states of the Interstate Certification Compact.

It is important that a student make the decision to apply for admission to the program (admission to the college is not admission to the Teacher Education Program) as soon as possible. If application is made later than the end of the sophomore year, there may be some difficulty in completing the professional sequence in four years. Faculty members in the student's major field and in the teacher education department should be approached early and will be happy to discuss a good group of courses and experiences that might help in the decision. The criteria for admission are:

1. Three recommendations, at least two from faculty members who know the applicant. One may be a former high school teacher who knows the applicant.

2. Cumulative overall average of at least 2.45 and a cumulative average of 2.45 with no failing grades in the major or in courses in the professional sequence is required for eligibility for student teaching.* (Some departments require a higher major average.

Consult your advisor for information.)

3. Speech proficiency prerequisite.
4. Successful completion of prerequisite courses.
5. Successful completion of major course requirements.
6. Evidence of active interest in community affairs and teaching.
7. Approval of a Screening Committee of three faculty members, with representation from the School of Professional Studies and the student's major field.
8. Clearance by the Student Personnel Division.

When a student is notified of admission to the program, an advisor from the professional education sequence will be assigned who will help the student plan the sequence properly. Further information regarding the process of admission to teacher education can be secured from Dr. Joseph Venturini, Coordinator of Teacher Admission.

*NOTE: Some provisional admissions are made. Consult the department for information.

Professional Sequence for Teacher Certification

(All Teacher Education Candidates)

Required Courses

	Semester	Hours
0821 220	Philosophical Orientation to Education.....	3
0808 407	Developmental Reading I	3
0808 408	Developmental Reading II	3
2001 200	Educational Psychology*	3
	Major Departmental Methods	3
0829 410	Field Experience in Education	
or		
0829 412	Field Experience in Urban Education.....	1
0829 400	Teacher, School, and Society.....	3
0829 401	Senior Field Experience	1
0829 402	Seminar in Professional Education	1
0829 411	Supervised Student Teaching	8

Speech Proficiency

This requirement must be met by passing a test or completing a speech course.

There are stages in the completion of the professional sequence that can be timed to be completed in four years. They include:

1. Decision to apply (Freshman/Sophomore)
2. Admission (Sophomore)
3. Preparation and Registration for Student Teaching (Sophomore/Junior)
4. The Professional Semester (Senior)

For additional information about these stages and any requirements specific to them contact the chairperson of the department of Curriculum and Teaching.

Graduate and Special Programs

1. M.A.T. Program for Hispanics — A Master of Arts in Teaching program designed to assist Spanish-speaking teachers, with instruction in both Spanish and English.

2. Certification Program (Post Baccalaureate) — A program leading to a New Jersey teaching certificate for holders of the B.A. degree who do not wish to enter a graduate degree program.

3. Master of Arts in Teaching — Designed for liberal arts graduates who seek certification as teachers. Special options, including one with a focus on alternative education, are available.

The State of New Jersey is in the process of revising requirements for teacher certification. Students are advised to consult with counselors and the chairperson of the Department of Curriculum and Teaching in their freshman year regarding information about these changes.

Courses of Instruction

1 0829 400

TEACHER, SCHOOL AND SOCIETY

3.0

An overview of the field of education, includes a consideration of instructional, curricular, legal and professional issues affecting teachers, schools and society as well as implications for students. Normally part of the professional semester for full-time undergraduate students.

1 0829 401

SENIOR FIELD EXPERIENCE

1.0

Part of the professional semester. It is designed to provide for experiences in the community in which one student teaches to better understand the place of the school in the community. Placement in professional semester field center. Course only open to student teachers.

1 0829 402

SEMINAR IN PROFESSIONAL EDUCATION

1.0

Part of the professional semester. It provides an opportunity to discuss problems encountered in teaching with peers and supervisors and to find practical solutions to problems experienced. Placement in professional semester field center. Course only open to student teachers.

Pre-requisites: 1 0829 410.

1 0829 410

FIELD EXPERIENCE IN EDUCATION

1-3

Thirty hours per credit in a public school as assistant to the classroom or subject teacher. Observing, working with individuals and small groups of students, helping with clubs and student activities, teaching 'Mini-Lessons' and becoming familiar with teacher activities. Each student keeps a log of activities. Pass/Fail. Class meetings on campus during the experience are arranged.

Pre-requisite: Admission to teacher preparation program.

Obtain course application from the Teacher Admissions office prior to registering for course.

1 0829 411

SUPERVISED STUDENT TEACHING I

8.0

Student Teaching in the public schools of New Jersey is required of all students who complete the regular program of graduation requirements. Part of professional semester.

1 0829 412

FIELD WORK IN URBAN EDUCATION

1-3.0

Similar to 0829-410 with emphasis on tutoring and individual conferences in urban public school. Student keeps a log of activities. Class meetings on campus. Pass/Fail.

Pre-requisite: Admission to teacher preparation program.

Obtain course application from the Teacher Admissions office prior to registering for course.

1 0829 413

FIELD WORK IN COMMUNITY AGENCIES

1-3.0

Thirty hours of guided experiences in public and private agencies. Objectives, scope and activities of agencies related to education. Preparation of report as specified on application form and log of activities. Pass/Fail. Class meetings on campus during the experience are arranged.

1 0829 414
IN-SERVICE SUPERVISED TEACHING I 4.0
 Replaces supervised student teaching for those employed in teaching situations without standard certification. Joint supervision by the school district and college personnel. Student must have permission of department chairperson and the school district.
Pre-requisite: 1 0829 402.

1 0829 415
IN-SERVICE SUPERVISED TEACHING II 4.0
 Continuation of In-service Supervised Teaching I. The co-requisite seminar is replaced by a series of special in-service conferences included in the course.
Pre-requisite: 1 0829 414.

1 0829 417
MUSIC ED SUPERVISED STUDY I 4.0
 Supervised student teaching in a public school for one-half semester. Experience at elementary and secondary level. Students must consult advisor regarding other professional semester requirements. Eight credits required for certification. Limited to music majors.
Pre-requisite: Admission to T.E. Registration with student teaching office.

1 0829 418
MUSIC ED SUPERVISED STUDY II 4.0
 Supervised student teaching in a public school for one-half semester. Experience at elementary and secondary level. Students must consult advisor regarding other professional semester requirements. Eight credits required for certification. Limited to music majors.

1 0829 420
INSTRUCTIONAL INNOVATIONS 3.0
 New ways of organizing students, staff, curriculum, time and space, as well as independent study, group dynamics, programmed instruction and student evaluation.

1 0829 421
SEMINAR PROBLEMS OF A CLASSROOM TEACHER 1-3.0
 Reviewing, evaluating and relating teacher aide and student teaching experiences to initial employment as a teacher. Analyzing strengths and weaknesses and making adaptations in techniques and practices. Should be taken concurrently with or immediately after experiences.
Prerequisite: Permission of department.

1 0829 423
TEACHING IN URBAN SCHOOLS 3.0
 Focuses on factors affecting teaching and learning in urban schools. Topics include the nature and structure of urban schools, recent innovations in urban settings, mores and family patterns in the inner city, and funding opportunities.

1 0829 425
CURRICULUM AND INSTRUCTION FOR AFFECTIVE EDUCATION 3.0
 Place of approaches to feeling, emotion, valuing, concern and process phenomena in the curriculum. The student will acquire (A) a familiarity with theory and practice of curricular design and instruction for affective education, (B) a facility in the application and evaluation thereof, and (C) a capacity for the development of original models. Micro-teaching, simulation, workshops and representative affect classroom procedures will be utilized extensively.
Pre-requisites: T 2001 200

1 0829 430
ELEMENTARY SCHOOL CURRICULUM 3.0
 Characteristics of young learners, the source, nature and function of curriculum goals, types of elementary school administrative organization, the relationship of curricular patterns and classroom procedures, modern subject matter areas, audio-visual aids, testing, and reporting to parents may be included. Field trips and simulation materials.

1 0829 431
JUNIOR AND MIDDLE HIGH SCHOOL CURRICULUM 3.0
 Current movements in the programs of intermediate schools. Representative practices and the rationale of the junior high school. Innovations in middle schools. Developing courses of study or units of work.

Economics

Chairperson: Frances Scher

The skill and competence of the economist is increasingly used in industry and labor organizations, in federal, state, and local governments, as well as in the academic world. As an economics major, the student specializes in knowledge that has become complex, operationally significant, and extremely relevant as world boundaries grow closer.

The economics department offers a Bachelor of Arts degree.

Economics Major

Required Courses

	Semester Hours
2204 101 Principles of Economics-Macro	3
2204 102 Principles of Economics-Micro	3
2204 203 Economic Statistics	3
2204 305 Intermediate Macroeconomic Analysis	3
2204 307 Intermediate Microeconomic Analysis	3

Note: A mathematics course is recommended.

Electives

Select 18 sh from the appropriate list to be obtained from the department.....18

Economics Minor

The department maintains a minor program for all majors at the college. It involves the completion of 18 sh from the departmental courses, 6 of which should be Principles of Economics-Macro and Principles of Economics-Micro.

Courses of Instruction

C 2204 100
INTRODUCTION TO ECONOMICS 3.0
Major objectives and features of the American economy, including operations of a market economy, structure and function of business, money and banking, government and business relations.

C 2204 101
PRINCIPLES OF ECONOMICS: MACRO 3.0
A study of the American economy, analytically and institutionally, the achievement of an optimal allocation of resources, price stability, full employment, level of national income and long term growth.

C 2204 102
PRINCIPLES OF ECONOMICS: MICRO 3.0
Organization and operation of the American economy for the production and distribution of goods and services. Pricing of products and factors of production in market situations varying from competition to monopoly. Resource allocation, price determination and behavior of the firm in the determination of quantity of output and the hiring of factors of production.

C 2204 203
ECONOMIC STATISTICS 3.0
Basic elements of economics statistics including frequency distribution, sampling, index numbers, statistical inference, regression and correlation techniques.

C 2204 204
LABOR ECONOMICS 3.0
The determinants of wages in the organized and unorganized markets an historical survey and analysis of the principal institutions and central processes in the labor and manpower areas. An examination of current issues in labor relations.
Pre-requisites: C 2204 102 or, C 2204 101.

C 2204 205
COLLECTIVE BARGAINING: THEORY AND PRACTICE 3.0
The development of collective bargaining in the United States and an analysis of the factors that account for present practices. The impact of collective bargaining on contemporary American life. Work in field.
Pre-requisites: C 2204 102, C 2204 101.

C 2204 213
ECONOMIC HISTORY OF THE UNITED STATES 3.0
Evolution of economic institutions with emphasis on development of domestic and foreign markets, technological changes and industrial growth. Analysis and interpretation of cyclical changes.

C 2204 222
ECONOMIC HISTORY OF EUROPE 3.0
The economic life and development of Europe from the middle ages to the present, emphasizing the period from about 1750 economic causes that underlie the dislocations and perplexities of the 19th and 20th centuries.

C 2204 250
SELECTED TOPICS IN ECONOMICS 3.0
An in-depth study of a particular theoretical or applied area of economics.

C 2204 300
WORLD RESOURCES AND INDUSTRIES 3.0
Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population-resource ratios. Examines world trend in production controls and market allocations.

C 2204 301
MONEY AND BANKING 3.0
An analysis of the economic role of money and credit in our economy with primary emphasis on federal reserve and treasury operations.
Pre-requisites: C 2204 102 or C 2204 101.

C 2204 302
FINANCIAL INSTITUTIONS 3.0
The structure and operation of financial institutions, their role in the economy and in the money and capital markets. The techniques and objectives of monetary policy and its effect on financial institutions.
Pre-requisites: C 2204 102, C 2204 101.

C 2204 303
ECONOMIC GROWTH AND DEVELOPMENT 3.0
Problems of hastening the growth of countries with low incomes per person, the requisites for the economic development, the obstacles to such development, the strategy and tactics of development and aid for development.
Pre-requisites: C 2204 102 or C 2204 101.

C 2204 304
PUBLIC POLICIES TOWARD BUSINESS 3.0
The economic organization of particular American industries. U.S. policy toward competition, monopoly and bigness in business. Government control of public utilities, transportation, radio and television broadcasting.
Pre-requisites: C 2204 102 Instructor's permission.

C 2204 305
INTERMEDIATE MACROECONOMIC ANALYSIS 3.0
The factors comprising aggregate demand and how they interact to determine the level of employment, output and the price level; the role of monetary and fiscal policy.
Pre-requisites: C 2204 102, C 2204 101.

C 2204 306
MANAGERIAL ECONOMICS 3.0
The application of economic theory in the decision-making processes of the firm utilization of economic analysis in the study of demand, costs, pricing and capital investment decisions.
Pre-requisites: C 2204 203 and C 2204 102, C 2204 101.

C 2204 307
INTERMEDIATE MICROECONOMIC ANALYSIS 3.0
The basic determinants of market demand. Input-output relationships in determining cost structure. Determination of prices received by resource owners in the productive process. Theory of the firm and pricing in different types of market organization with varying degrees of competitive conditions.
Pre-requisites: C 2204 102, C 2204 101.

C 2204 308
PUBLIC FINANCE 3.0
The impact of governmental expenditures, taxes and debt operation on resource allocation, income distribution, economic stabilization and economic growth.
Pre-requisites: C 2204 102, C 2204 101.

C 2204 310
URBAN AND REGIONAL ECONOMICS 3.0
 The underlying economic forces operating in the urban economy development of the urban economic unit, relationship of the urban economy to the regional and national economy; economic activity within the urban area and the public sector of the urban economy.
Pre-requisites: C 2204 102, C 2204 101.

C 2204 312
BUSINESS CYCLES AND FORECASTING 3.0
 Fluctuations in economic activity which characterize modern industrial economies. Definitions, descriptions and statistical measurement of business cycles are presented along with theories describing the causes of the cycles. Practical application of forecasting techniques to predict the course of future economic and business activity.
Pre-requisites: C 2204 102, C 2204 101.

C 2204 398
ECONOMIC INDEPENDENT STUDY 3.0
 Independent study for juniors and seniors who have developed a special interest as a result of work in a course or who wish to develop their interest through their own guided reading. A member of the economics department guides the student in his research and reading.

C 2204 402
INTERNATIONAL ECONOMICS 3.0
 The how, why and consequences of the movement of goods, services and factors of production in international exchange and an examination of the financial arrangements used to facilitate trade.
Pre-requisite: C 2204 101, C 2204 102.

C 2204 403
COMPARATIVE ECONOMIC SYSTEMS 3.0
 The economics systems of planned and mixed economics with special emphasis on the Soviet Union, China, the United Kingdom, the Scandinavian countries and the United States.
Pre-requisites: C 2204 101 or C 2204 102 or C 2204 100.

C 2204 405
COLLECTIVE BARGAINING IN THE PUBLIC SECTOR 3.0
 Course will analyze the sources of growth of collective bargaining in the public sector examine processes utilized by the parties and evaluate the impact of collective bargaining.
Pre-requisites: C 2204 101, C 2204 102.

C 2204 407
ECONOMICS OF INDUSTRIAL ORGANIZATION 3.0
 The causes and effects of structure, size and concentration on competition and market prices.
Pre-requisite: C 2204 102.

C 2204 414
DEVELOPMENT OF ECONOMIC THOUGHT 3.0
 Broadening and improving the command of modern economic theory by examining the outstanding contributors to economic thought over the past two centuries.

C 2204 415
THE ECONOMICS OF SOCIAL PROBLEMS 3.0
 The extent, causes and consequences of poverty, inequality and insecurity. An appraisal of reforms, social insurance, medical care, public housing, rural development. The economics of discrimination and educational opportunity.

C 2204 417
MATHEMATICAL ECONOMICS 3.0
 Formulation of economic theory in mathematical language. Application of mathematical methods to economic theory and to the derivation of theoretical conclusions.
Pre-requisites: C 2204 101 or C 2204 102 or C 2204 203.

C 2204 418
ECONOMICS OF HUMAN RESOURCES 3.0
 Analysis of the role of human resources in the economic process.
Pre-requisites: C 2204 101, C 2204 102.

C 2204 420
ECONOMETRICS 3.0
 An introduction to the techniques of applied economic (Social Science) research. Examination of the tools necessary for applied economic research and methods for dealing with certain problems inherent in economic data. The primary emphasis will be on the application of the techniques to economic data.
Pre-requisites: C 2204 203, CRS in similar field.

C 2204 438
ADVANCED SEMINAR IN ECONOMICS 3.0
 A seminar designed to enable economics students to develop and discuss important economic ideas with an aim to presenting these in a teaching situation.
Pre-req. 8 sh in economics and permission of instructor.

C 2204 461
SEMINAR IN INTERNATIONAL ECONOMIC GEOGRAPHY 3.0
 An interdisciplinary seminar focusing the techniques of economics and geography on a common theme, hopefully resulting in a synergistic conclusion.
Pre-requisites: C 2204 101 or, C 2204 102.

C 2204 497
ECONOMICS INDEPENDENT STUDY 3.0
 Open to students who wish to undertake reading and/or research in specialized areas of economics. Permission of the department chairman must be secured.
Pre-requisite: Permission of the department chairperson.



Educational Foundations

Chairperson: Thunder Haas

As a society evolves, so does its educational responsibilities. The department meets these changing needs by developing innovative programs through comparative study, and philosophical and sociological theory. In this way, it also services and improves existing programs. The department offers undergraduate and graduate courses for the preparation of public school educators while meeting the specialized demands that are beyond the limits of the public schools. It also offers an MAT in Alternate and Community Education which permits qualified college graduates teaching in non-public schools to earn a secondary school teaching certificate while working towards a master's degree. Undergraduate electives are offered as well.

Courses of Instruction

3 0308 400
FIELD EXPERIENCE IN LATIN AMERICAN AREA STUDIES 6-12
The field experience permits students participating in the Latin American area studies program to acquire first-hand knowledge of some aspect of life in a Latin American community. The students, after having selected their topics, are responsible for sending reports from the field, developing the techniques they need for working in cooperation with program staff, and demonstrating that they have begun to interpret local reality in a disciplined manner. *Pre-requisites: 3 0308 300.*

3 0821 220
PHILOSOPHICAL ORIENTATION TO EDUCATION 3.0
An initiation to professional educational challenges and responsibilities in light of philosophic forces related to American educational goals and practices.

3 0821 225
CRITICAL ISSUES IN THE EDUCATION OF BLACK AMERICANS 3.0
This course examines the attitudes of American society in relation to the education of Black Americans from slavery to the present time. It traces the slow evolution and pinpoints the milestones along the way. It emphasizes the issues which currently prevent the achievement of full implementation of equality of educational opportunity for Black Americans including social/structural obstacles. Solutions are addressed which appear to have potential for success.

3 0821 264
SEXISM IN AMERICAN EDUCATION 3.0
Designed to analyze sexism on the American schools. Emphasis on sex role stereotyping in teacher behavior, peer behavior, curriculum and textbook content.

3 0821 275
ITALIANS AND ITALIAN — AMERICANS COMPARATIVE STUDIES 3.0
The course shows the relationship between the Italian and Italian-American experiences. It deals with aspects of religion, politics, language, work, and moral codes. Comparisons are made with the experiences of other ethnic groups in America. The course is taught with an interdisciplinary approach.

3 0821 420
PHILOSOPHIC FOUNDATIONS IN EDUCATION 3.0
A study of philosophic forces of western civilization which have had an impact on American cultural values as they relate to professional education goals and practices.

3 0821 440
SOCIOLOGICAL FOUNDATIONS OF EDUCATION 3.0
Teaching and learning in context of other social factors. Social and cultural influences on teachers and learners and their transactions. The relationship of culture, role and personality. The school as a changing social system.

3 0821 441
URBAN POLITICS AND EDUCATION 3.0
The politics of confrontation. The school system as a political institution. Force fields and their influence upon the teacher, school and community. Political orientations and experiences of various ethnic groups. The influence of political pressures on urban schools from city or higher levels.

3 0821 445
PUERTO RICAN CHILDREN IN MAINLAND SCHOOLS 3.0
Introduction to the experiences of Puerto Rican children in mainland schools with particular attention to migration. The Puerto Rican family, Puerto Rican life-styles, cultural identity, cultural pluralism, learning needs and evolving programs. Includes visits to schools.

3 0821 447
THE EDUCATION OF HISPANIC-AMERICAN YOUTH (AN INTRODUCTION) 1.0
An introduction to the educational, cultural, social, and economic situation of Hispanic-Americans. The focus is on problems faced by Hispanic youth born in the United States.

3 0821 460
COMPARATIVE EDUCATION 3.0
The meaning of comparative education differences between educational systems in developed and developing societies. Developed areas such as western and central Europe — Developing areas such as Latin America and tropical Africa.

3 0821 463
WOMEN AND EDUCATION IN MODERN WESTERN SOCIETY 3.0
The role and education of women in particular types of societies. Attention given to the U.S., France, and Latin America. An effort is made to relate the educational situation of women to their social conditions. Attention given to the education of working class, bourgeois, and aristocratic women.

3 0821 477
ETHNIC/RACIAL GROUPS AND THE SCHOOLS IN AMERICA 3.0
An introduction to the peopling of the United States with primary attention to immigration and the role of American schools. Special attention is given to forces, influences, movements and experiences which define the universe of the immigrant child. Ethnicity, Assimilation/acculturation, Interethnic relations, Progressivism, The settlement houses, Charity organizations, Social reformers, The Americanization movement.

Educational Leadership

Chairperson: Anne C. Castens

Educational leaders need solid foundations in order to meet the needs of this ever changing world. The department has four specialties programs that provide essential course work and field experience:

Administration and Supervision

Offers only graduate courses leading to the M.A. in Administration and/or Supervision and to post M.A. studies. (See graduate catalog).

Educational Research and Evaluation

Trains educational research and evaluation specialists needed in various educational, governmental and industrial areas. It also broadens the professional education of students through courses designed to make them competent in educational research and evaluation.

Reading Program

The Reading Program provides skills necessary to improve, develop, implement, and maintain programs in developmental, corrective, and remedial reading.

There are two graduate programs: certification for reading specialists and a Master of Arts degree with reading specialist certification. For undergraduates, the department provides a personal reading improvement course and a Reading minor with courses that meet teacher certification requirements.

Reading Minor

The course sequence in Reading will be coordinated with the course sequence in the major program. A minimum of 24 sh will be required for the completion of the minor.

Required Courses

	Semester Hours
0830 400 Foundations of Reading Instruction*	3
0830 402 Survey of Reading Methods in Secondary Subjects	3
0830 403 Practicum in Reading and the Improvement of Study Skills	3
0830 404 Diagnosis and Treatment of Reading Problems.....	3
2001 235 Psychology of the Handicapped (prerequisite)	3

*Prerequisite for all Reading Courses

Electives (departmental)

Select 9 sh from the appropriate list to be obtained from the department.....9

Note: College students may take a personal reading improvement program for optional credit as a service through the Reading and Study Skills Center. Members of the community may obtain diagnostic and treatment services for school age children and for adults. For information call the Center.

Media and Technology in Education Team

The modern library doesn't just contain printed material; it stores informational media. The Media and Technology team prepares students with a sound, up-to-date group of courses that lead to New Jersey state certification as an Associate Media Specialist (undergraduate), or as an Educational Media Specialist (graduate).

Associate Media Certificate

REQUIREMENTS

Satisfactory completion of a degree program.
New Jersey Teaching Certificate

Courses:

	Semester Hours
0840 355 Media for Intercultural Communications	3
0840 400 Media for Trainers and Educators.....	3
0840 401 Fundamentals of Cataloging and Classifying Educational Resources.....	3
0840 402 Reference and Bibliography for School Resource Centers.....	3
0840 403 Reading Materials for Children and Youth	3
0840 404 Organization and Administration of a School Media Center	3
0840 420 Teaching Materials Workshop	3
0840 445 Audio Technology in Education.....	3

Electives (departmental)

Select courses from the appropriate list to be obtained from the department.

Field Experience

Fifty hours of supervised experience in a professional center usually connected with student teaching. This may be waived; see team leader for information.

Courses of Instruction

4 0824 410 ASSESSMENT OF YOUNG CHILDREN — EVALUATION OF COGNITIVE PROGRESS 3.0

Principles and practices of assessing young children. Various individual and group, formal and informal evaluative instruments and techniques will be reviewed. Use of tests in understanding children's developmental patterns, in the diagnosis of learning difficulties, in the determination of readiness, and in the evaluation of remedial and other special programs will be studied. Course content and requirements will be geared to individual needs of students.

4 0824 491 EDUCATIONAL TESTS AND MEASUREMENTS 3.0

Educational goal setting, evaluation and improving instruction. Identifying and translating goals into behavioral objectives. Constructing tests. Standardized tests and other devices for measuring and evaluating achievement, intelligence, aptitudes and personal social relationship. Basic statistical measures. Organizing and interpreting test data, Marking and reporting pupil progress. Each student will construct a test in his/her field of interest. Immediate applicability to thorough and efficient program.

4 0830 053 BASIC READING SKILLS 3.0

An intensive laboratory course for students who must fulfill their minimum basic skills requirement in reading.

Pre-requisite: New Jersey College Basic Skills Placement Test.

4 0830 301 TUTORING AND SMALL GROUP INSTRUCTION 2-4

Designed to provide tutors, teacher aides and other differentiated personnel with the necessary background of knowledge, skills and understanding to enable them to serve in educational environments in schools, hospitals, prisons, neighborhood youth corps, community action programs, etc. Students enrolled in this course will learn how they can increase the academic performance of the learner; how they can supplement rather than subvert what the instructor in the formal educational environment will do. (Open to undergraduates, volunteers, and personnel from community action programs).

Pre-requisite: This course may be taken as an elective or as part of the reading minor.

4 0830 302 REMEDIATION READING TECHNIQUES 2.0

Designed to provide instructional personnel with specific techniques for assisting students experiencing reading problems.

4 0830 400 FOUNDATIONS OF READING INSTRUCTION 3.0

Good first teaching of reading is of primary importance. The sequential development of reading skills extend into the junior and senior high school. Methods and materials currently in use in elementary reading programs are studied with a view toward increasing the power of both the teacher and the learner. How the reading process begins, and how it is reinforced are topics fundamental to all upper grade teachers faced with the problem of continuing reading skills development in all curriculum areas. Tutoring experience in nearby elementary schools is required.

4 0830 402 SURVEY OF READING METHODS IN SECONDARY SUBJECTS 3.0

The following are explored: the role of good reading for academic and personal success; the physiological, psychological and sociological factors in reading; resources available; the school's responsibility to help the student build reading skills; reading opportunities in the entire curriculum.

4 0830 403 PRACTICUM IN READING AND THE IMPROVEMENT OF STUDY SKILLS 3.0

The following areas are explored: recent materials and research; developing practical methods for teaching and learning; the SQ3R approach; taking examinations; reading and problem-solving; memory and concentration taking; organizing reading notes and the reading of homework assignments. Students tutor collegians in these areas.

4 0830 404 DIAGNOSIS AND TREATMENT OF READING PROBLEMS 3.0

Problems of the handicapped; recent materials and research; evaluative and corrective techniques; diagnostic treatment and methodology are covered. An on-going student diagnosis of the school-age child is required.

4 0830 405 COLLEGE READING IMPROVEMENT 2.0

Workshop for college students whose reading-study problems interfere with school progress. Supervised practice promotes vocabulary growth, flexible speeds, comprehension and recall, skimming, interpretative and critical techniques. Reviewing for examinations, keeping up with daily assignments, taking notes and organizing content are also covered. Students may volunteer or be recommended by a faculty member.

4 0830 407 DEVELOPMENTAL READING PRINCIPLES AND TECHNIQUES I 3.0

Designed for classroom and non-classroom personnel whose major responsibility is instructing students. Major focus will be on developing those skills, understandings and competencies in the nature of the reading process, in specific word recognition and comprehension strategies, and in classroom diagnostic techniques.

4 0830 408 DEVELOPMENTAL READING PRINCIPLES AND TECHNIQUES II 3.0

Designed to enable content area teachers to understand the developmental nature of the reading process and employ specific techniques to facilitate and improve reading competencies.

Pre-requisites: 4 0830 407.

4 0840 355 MEDIA IN INTER-CULTURAL COMMUNICATION 3.0

Offered to satisfy the need for skill in the practical use of media for effective communication in inter-cultural situations. Ethnic, social, and commercial factors affecting accuracy and meaning receive major attention. Training in equipment technology provided.

4 0840 400 MEDIA FOR TRAINERS AND EDUCATORS 3.0

Develops competency with educational media in classroom presentations. Production of simple teacher made materials; selection and utilization of materials and equipment; and proficiency in basic media technology and evaluation.

4 0840 401 FUNDAMENTALS OF CATALOGING AND CLASSIFYING EDUCATIONAL RESOURCES 3.0

Covers principles involved in cataloging and classification of print and non-print materials according to established classification schemes. Extensive practice through laboratory experience provided.

4 0840 402

REFERENCE AND BIBLIOGRAPHY FOR SCHOOL RESOURCE CENTERS

3.0

An examination and analysis of basic reference materials with emphasis on those most useful in library resource centers. Encyclopedias, dictionaries, geographical and statistical sources as well as bibliographies are included.

4 0840 403

READING MATERIALS FOR CHILDREN AND YOUTH (SELECTION AND EVALUATION)

4.0

A study and evaluation of library materials provided by the modern school media center to meet the needs of youth. Extensive critical reading of books for children and young adults is required. Principles of book selection are emphasized and experience in the use of selection tools is provided. The point of view relates the library collection to the total school program.

4 0840 404

ORGANIZATION AND ADMINISTRATION OF A SCHOOL MEDIA CENTER

3.0

Practical experience in setting up effective library routines is stressed. These routines include budgeting, locating sources for materials, purchasing materials, book processing, preparing reports and statistics, taking inventory, planning and adapting rooms and equipment, and evaluating collections and services.

4 0840 420

TEACHING MATERIALS WORKSHOP (I.S.)

3.0

Initial problems in creation of media resources. Simple design experiences in development of materials production. Individually oriented to projects and subject areas of each student. Strong emphasis on budget conscious improvisation for classroom teachers.

4 0840 430

TELEVISION SERVICES IN A SINGLE SCHOOL MEDIA PROGRAM

3.0

Development of competency with simple television equipment. Proficient instructional utilization is emphasized in extensive laboratory instruction.

4 0840 445

AUDIO TECHNOLOGY IN EDUCATION

3.0

Develops skill in producing audio materials for learning laboratories, film sound, and a variety of synchronized image-sound presentation techniques. Proficiency in the design of audio materials is emphasized. Competency with duplicating, pulsing, recording and synchronizing devices is required.

English

Chairperson: Claire Healey

There are two important aspects in the study of language. One is learning communication skills through writing, reading, grammar, and studying the roots of the language. The other is understanding the culture through its literature. The English major is designed to help a person acquire this knowledge.

Those interested can major or minor in English, or get a teaching certificate. There is also a special program designed to give students with strong writing and analytical skills career-oriented opportunities through the Cooperative Education Program.

A Bachelor of Arts degree is awarded in the English major.

English Major

Prerequisite*

	Semester Hours
1501 100 Basic Freshman Composition.....	3
or	
1501 103 Special Communications Skills.....	3
or	
1501 105 Freshman Composition.....	3
and	
1501 106 Introduction to Literature.....	3

*English majors may take electives concurrently with these courses. For others, successful completion of the prerequisites is necessary before taking any other English course.

Required Courses

Genre (select one)

1501 160 Art of Poetry.....	3
1501 162 Art of Fiction.....	3
1501 163 Art of Drama.....	3

Linguistics (select one)

1505 284 The English Language.....	3
1507 205 Advanced Writing Skills.....	3
1507 407 Advanced Literary Analysis.....	3

American Literature* (2 courses each from a different period).....6

British Literature* (3 courses each from a different period).....9

Comparative Literature*

(Select One)

1503 172 Western World Literature.....	3
1503 173 Eastern World Literature.....	3
4903 299 Literature and Art in the Western World.....	3

*Check with the department for appropriate courses.

English Minor

Required Courses

Genre (1 course).....	3
Linguistics (1 course).....	3
American Literature (2 courses).....	6
British Literature (2 courses).....	6

Journalism Minor

I. Required Courses:

M 1507 114	Newswriting
M 1507 216	History of Journalism in America
M 1507 313	Editing

II. Electives. Three of the following:

M 1507 214	Feature Writing
M 1507 314	Advanced Editing
M 1507 315	Magazine Journalism
M 1507 316	Reporting of Public Affairs
M 1507 416	Interpretive Journalism

Special Programs

ENGLISH COOPERATIVE EDUCATION

The English Cooperative Education Program places students with strong writing and analytical skills in supervised employment outside the classroom. The Co-Op term is a semester during which the student advised by a faculty coordinator and the Cooperative Education office completes the terms of a learning contract.

Teacher Certification

Students desiring teacher certification in English must gain admission to the Teacher Education Program by meeting the requirements of that program and of the English Department. Prerequisites for admission to the Teacher Preparation Program in English and current requirements in the discipline for both a first and a second teaching field certificate can be obtained in the English Department.

Carefully check the requirements for admission to the Teacher Education Program and the professional sequence in the department of Curriculum and Teaching.

Courses of Instruction

M 1501 100 BASIC FRESHMAN COMPOSITION 3.0

Instruction in basic writing skills and research, frequent writing assignments and a research paper. In addition to regular class meetings, students may be required to attend tutorial sessions over as long a period of time as necessary to raise students' skills to college standards. Satisfies the communications requirement in writing.

This course M 1501 103 or 1501 105 and 1501 106 are prerequisites for all other English courses.

M 1501 103 SPECIAL COMMUNICATION SKILLS 3.0

Basic writing skills and research with frequent writing assignments and research using new motivational and audiovisual techniques designed to help students with writing problems. Satisfies the communications requirement in writing.

This course or 1501 100 or 1501 105 and 1501 0106 are prerequisites for all other English courses.

M 1501 105 FRESHMAN COMPOSITION 3.0

Writing skills and research techniques with frequent writing assignments and a research paper. Satisfies the communications requirement in writing.

This course or 1501 0100 or 1501 0103 and 1501 0106 are prerequisites for all other English courses.

M 1501 106 INTRODUCTION TO LITERATURE 3.0

All forms of literature selected from different periods and cultures. Satisfies the communications requirement in reading. This course and 1501 0100, 1501 0103 or 1501 0105 are prerequisites for all other English courses.

Pre-requisite: M1501 100, M1501 103, M1501 105 or their equivalents. Exception — English majors.

M 1501 139 SOCIAL PROTEST LITERATURE IN AMERICA 3.0

Novels, dramas and poetry of protest against social injustices in the United States since World War I.

M 1501 160 ART OF POETRY 3.0

Problems of defining and evaluating poetry through representative selections illustrative of form, type, and effect.

M 1501 161 SHORT STORY 3.0

Short stories of 19th and 20th centuries as an evolving form with human and literary values.

M 1501 162 ART OF FICTION 3.0

Form and techniques of representative works of fiction through close reading and discussion of the short story, the novella and the study of novel.

M 1501 163 ART OF DRAMA 3.0

Ways in which man expresses himself and his community through drama as a blend of word and gesture.

M 1501 225 EARLY AMERICAN LITERATURE 3.0

American literature from the Puritans to 1800, tracing the development of colonial and revolutionary thought and the beginning of America's cultural independence.

M 1501 226 LITERATURE OF THE AMERICAN RENAISSANCE 3.0

Moby Dick and The Scarlet Letter among other major works of masters of the American romantic period: Emerson, Thoreau, Hawthorne, Melville, Whitman and Poe.

M 1501 238 AFRO-AMERICAN WRITERS 3.0

Major Afro-American writers from colonial times to the recent past.

M 1501 239 CRITICAL TRENDS: 20th CENTURY AMERICA 3.0

Key works of modern American literature examined in the light of available critical apparatus.

M 1501 240 ENGLISH LITERATURE I: BEGINNINGS TO 1660 3.0

The continuity and changes in English literature from its beginnings to 1660 through representative works of major and minor authors.

M 1501 241 ENGLISH LITERATURE II: 1660 TO PRESENT 3.0

English literature from the restoration to the present. May be taken independently of English Literature I.

M 1501 244 CHAUCER 3.0

Troilus and Criseyde, The Canterbury Tales, and some of the minor poems in middle English. No previous language training required.

- M 1501 245
MIDDLE ENGLISH LITERATURE 3.0
The historical and social context and the relation to continental medieval traditions in the literature of England from 1100 to 1400, with minor attention to Chaucer. Where appropriate, works read in middle English.
- M 1501 246
RENAISSANCE LITERATURE 3.0
Major non-dramatic writers of the 16th and early 17th century England whose individual contributions in poetry and prose reflect the literary and philosophical preoccupations of the period such as Sydney, Lyly, Nashe, Green, Donne and Browne.
- M 1501 247
THE AUGUSTAN AGE 3.0
Important works of English literature 1660-1745, including poetry, criticism, essays, fiction, and drama, within the literary, cultural, social and intellectual context of the age.
- M 1501 248
SENSIBILITY TO ROMANTICISM 3.0
Important works of English literature — poetry, criticism, philosophical prose, fiction and drama — within the literary, social, cultural and intellectual context of the period 1745-1800.
- M 1501 254
ENGLISH DRAMA — BEGINNINGS TO 1642 3.0
Medieval origins to the closing of the theaters; of miracles, mysteries and moralities through the development of Tudor and Stuart drama. Shakespeare excluded.
- M 1501 294
WOMEN POETS 3.0
Selected poets from Sappho through Emily Dickinson to Sylvia Plath in relation to contemporary poets.
Pre-requisites: M 1501 160.
- M 1501 324
AMERICAN POETRY TO 1940 3.0
American poetry from Poe to Langston Hughes with an emphasis on the unique American voice.
- M 1501 325
AMERICAN POETRY: WWII TO PRESENT 3.0
American poetry beginning with William Carlos Williams and continuing to the present to reveal new attitudes, techniques and contributions to American culture.
- M 1501 334
AMERICAN DRAMA 3.0
American drama chosen for excellence or representative of a significant era or movement in the theater from the early 18th century imitative works through melodrama to the serious works of the 20th century.
- M 1501 336
AMERICAN LITERARY REALISM 3.0
The works of James, Howells, Twain, Crane, Norris, Dreiser or others to emphasize developing literary concepts of realism, naturalism social Darwinism in the changing cultural period between 1860 and 1900.
- M 1501 337
MODERN AMERICAN FICTION 3.0
American fiction from 1918 to 1945 with attention to the works, criticism and lives of such authors as Hemingway, Faulkner and Fitzgerald.
- M 1501 338
CONTEMPORARY AMERICAN FICTION 3.0
Developments in American fiction since the 1940's with attention to the relation of such authors as Mailer, Roth, Nabakov, Vonnegut to each other and to events.
- M 1501 343
MILTON 3.0
Milton's universality illustrated by a major poetic work and selections from his Juvenalia, prose and other poetic works.
- M 1501 346
19TH CENTURY ENGLISH ROMANTIC LITERATURE 3.0
The revolutionary expression of such poets and essayists as Wordsworth, Coleridge, Shelley, Byron, Keats, Hazlitt, DeQuincy and Lamb that expanded aesthetic considerations.
- M 1501 347
VICTORIAN PROSE AND POETRY 3.0
Mid and late 19th century responses to the emergence of modern British society demonstrated in the prose of Carlyle, Mill, Ruskin, Husley, Newman, Arnold or Morris and in the poetry of Tennyson, Browning or Arnold.
- M 1501 353
SHAKESPEARE: COMEDIES/HISTORIES 3.0
Representative comedies and histories: their sources, devices and characteristics; their staging in the context of Elizabethan society; and Shakespeare's vision of man as actor in the comic mode and in roles of leadership.
- M 1501 354
SHAKESPEARE: TRAGEDIES/ROMANCES 3.0
Representative tragedies and romances: their sources, devices and characteristics their staging in the context of Elizabethan society and Shakespeare's view of man in the tragic mode and special vision in the later romances.
- M 1501 356
ENGLISH NOVEL TO 1900 3.0
Form and theme of the English novel through the 18th and 19th centuries, evaluated by literary, social, moral and cultural criteria.
- M 1501 364
CONTEMPORARY POETRY 3.0
Distinctive poetry movements since the imagists with critical appreciation attained through comparison of the diverse styles, themes and poetic theories of representative poets of English-speaking countries.
- M 1501 370
ENGLISH INDEPENDENT STUDY I 3.0
A scholarly interest beyond the scope of a presently offered course pursued under the direction of a specialist in the field of that interest.
Pre-requisite: Junior or Senior with prior permission of the specialist and the English department.

M 1501 371
ENGLISH INDEPENDENT STUDY II 3.0
 A second scholarly interest beyond the scope of a presently offered course pursued under the direction of a specialist in the field of that interest or that begun in 1501 0370 continues for a second term.
Pre-requisite: Successful completion of K 1501-0370 and prior permission of the specialist and the English department.
Pre-requisites: Instructor's permission.

M 1501 393
AMERICAN POLITICAL NOVEL SINCE 1900 3.0
 The political themes reflected in American novels arising from social Darwinism, socialism, communism, World War I, the Great Depression and World War II.
Pre-requisite: A survey course in one of the following American literature, American history, sociology or political science.

M 1501 397
BIOGRAPHY 3.0
 Sources of biography in letters, diaries, memoirs. Biographies from medieval England to contemporary Pulitzer Prize winners studied. Emphasis on changing concepts of form and on revelations of the nature, character, and varied destinies of personality.

M 1501 401
OLD ENGLISH LANGUAGE AND LITERATURE 3.0
 Selected prose and poetry representative of the heroic, elegiac, religious and popular traditions of pre-conquest England with recitation and reading in the original old English. No previous language training required.

M 1501 427
FILM COMEDY 3.0
 Film comedies from all periods in relation to comic theory and its application with particular emphasis on American films of the 20's and 30's.

M 1501 429
FILM OF THE HOLLYWOOD STUDIO YEARS 3.0
 The period from 1930 to 1959 in filmmaking — the years of the rise and decline of the Hollywood studio and the American film at the height of its influence and importance.

M 1501 430
THE AMERICAN FILM 3.0
 The evolution of the American film from its beginnings to the present with special attention given to those genres in which American films are distinctive or of particular excellence.

M 1501 442
THE INSTRUCTION OF COMMUNICATIONS SKILLS 3.0
 Methods are considerably different from any traditional approach to composition and aim at providing the secondary school student or college freshman with (1) a maximum of individual instruction (2) an opportunity to gear the course content to his own individual needs and interests (3) a chance to work at his own pace and develop self-reliance in composition and revision (4) and a chance to practice the oral, aural, written, typing and research skills necessary for a successful college career.

M 1501 444
17th CENTURY ENGLISH POETRY 3.0
 The schools of Donne and Jonson and the works of Marvell and Dryden. Milton excluded.

M 1501 446
IRISH RENAISSANCE PERIOD LITERATURE 3.0
 Irish romanticism, naturalism, symbolism and realism in the works of Joyce, Shaw, Yeats and others from the late 1890's to the 1930's.

M 1501 455
RESTORATION AND 18th CENTURY DRAMA 3.0
 The major innovation of dramatic form and conventions of the period from — 1660 to 1715 on the English stage in the works of Etherege, Wycherley, Congreve, VanBrugh and Dryden.

M 1501 456
20th CENTURY ENGLISH NOVEL 3.0
 The literary and cultural context and the stylistic and structural changes in representative British novels of the 20th century.

M 1501 471
TEACHING ENGLISH (SECONDARY) 3.0
 Communicating both the discipline and the human dimensions of English as a subject in the classroom. A course in the professional sequence not credited to the English major requirements.
Pre-requisite: Concurrent or completed preliminary field experience 0829-0410 and permission of the English teacher education coordinator.

M 1501 493
SEMINAR IN AMERICAN LITERATURE 3.0
 The works of one major American author in depth or of a group of authors whose works are related by theme, artistic form or cultural period. Enrollment limited.
Pre-requisite: Junior or Senior English majors or permission of the instructor.

M 1501 494
SEMINAR IN ENGLISH LITERATURE 3.0
 The works of one major English author in depth or of a group of English authors whose works are related by theme, artistic form, or cultural period. Enrollment limited.
Pre-requisite: Junior or Senior English majors or permission of the instructor.

M 1503 172
WESTERN WORLD LITERATURE 3.0
 Literary masterpieces which reflect the major cultural transitions that have shaped Western world history, thought and tradition.

M 1503 173
EASTERN WORLD LITERATURE 3.0
 Literature from the Orient and Near East from the classical period to the contemporary.

M 1503 260
MYTH AND LITERATURE 3.0
 Myth and the myth-making process through the origins, meanings, and major archetypes and motifs of Occidental and Oriental myths.

M 1503 266
AFRICAN MYTH AND LITERATURE 3.0
 The nature of the sub-Saharan experience and vision through African myths and literary works within the context of culture, criticism and theory.

M 1503 273
LITERARY MODERNISM 3.0
 The intellectual concepts of futurism, dada, surrealism and expressionism in the early 20th century that continues to influence literature as well as art.

M 1503 274
MODERN DRAMA: IBSEN TO O'NEILL 3.0
 Major plays and the playwrights whose critical insights and historical perspective led to unique contributions and dramaturgic consequences.

- M 1503 278
SPECULATIVE FICTION FANTASY 3.0
The impossible and improbable in fairy tales, myth, legend, horror, sword and sorcery, the supernatural and high fantasy as a critical mode. Technological science fiction excluded.
- M 1503 372
MAJOR WOMEN PROSE WRITERS 3.0
Significant relationships among the writings of not more than five women such as Mme. Destael, Mary McCarthy or Susan Sontag, each of whose work reflects its particular era.
- M 1503 374
CONTEMPORARY EUROPEAN DRAMA 3.0
Plays representing the themes, values and dramatic techniques of selected British and Continental (French, German, Italian, Russian and/or other) dramatists.
- M 1503 376
MODERN EUROPEAN NOVEL 3.0
The creative expression of such novelists as Gide, Hesse, Kafka, Proust and Wolfe as shaped by events of the period 1910 to 1930 and whose works in turn influenced the future of the novel.
- M 1503 378
SCIENCE FICTION 3.0
Fiction of the future that speculates and extrapolates from the physical and social sciences, selected from both the classics and contemporary writings.
- M 1503 381
COMIC AND SATIRIC TRADITION 3.0
Comic and satiric devices compared and exemplified historically in the different genres from Aristotle's time to the present.
- M 1503 428
FILM AND SOCIETY
The relationship between film and the society. Either a specific social issue, a particular society or group of societies, or a special historic period will be explored.
- M 1503 463
HISTORY OF CRITICISM 3.0
The modes of critical thought expressed by major figures in classical time, their imitators and interpreters in the Renaissance and Neo-classic period, the innovators among the romantics, and by critics of the 20th century.
- M 1503 464
MODERN POETRY TO T.S. ELIOT 3.0
Works of the French symbolists and the Georgian and imagist poets of Britain, the Continent and America whose theories and principles undergird modern poetry.
- M 1503 465
MAJOR FILM FIGURES 3.0
The work and careers of influential men and women in the history of cinema including directors, producers, performers and theorists.
- M 1503 466
WORLD FILM 3.0
Films from the major film producing countries excluding the United States, France, Germany, Italy, Sweden, Russia, England, India and Japan.
- M 1503 467
MAJOR FILM GENRES 3.0
Major examples of one to three film genres which could include, among others, the American western, the documentary, the German expressionist film, the Shakespeare adaptation, and/or the film Noir.
- M 1503 468
THE SILENT FILM 3.0
The finest examples of silent screen from earliest American and French efforts and from those countries whose films reached their greatest artistic height during the silent era to the coming of the talking film.
- M 1503 469
DRAMA ON FILM 3.0
Outstanding film productions of great European and American plays are compared to the stage versions to determine the modifications of the play's artistic thrust in the screen version.
- M 1503 470
THE CONTEMPORARY FILM 3.0
The major film, critical theories and other influences which began with the American *film noir* and the European films after W.W.II that have resulted in the contemporary film as an international art form.
- M 1503 492
SEMINAR IN COMPARATIVE LITERATURE 3.0
A culture, era, theme or literary approach through literary masterpieces. Enrollment limited.
Pre-requisite: Junior or Senior English majors or permission of instructor.
- M 1505 284
THE ENGLISH LANGUAGE 3.0
English from Indo-European origins up to and including 18th century grammarians with attention to Germanic strains and the morphology of old and middle English.
- M 1505 384
THE GRAMMARS OF ENGLISH 3.0
Traditional English grammar, new theories of grammar and the application of grammar to teaching or to utilizing its principles in rhetoric and composition.
Pre-requisite: K 1505 284.
- M 1505 385
VERBAL AND NON VERBAL LANGUAGE 3.0
Effects of language on human thinking, behavior, and personality; recent studies of problems of verbal communications.
- M 1505 398
AUTOBIOGRAPHY 3.0
Autobiographical reading, especially in letters, diaries, and journals, from ancient times to the present.
- M 1505 490
SEMINAR IN LINGUISTICS 3.0
The linguistic approach to literary works in order to decode the language of the artist and to establish critical judgments. Limited enrollment.
Prerequisite: Junior or senior English majors or permission of instructor.
- M 1507 114
NEWSWRITING 3.0
Writing news articles according to contemporary practices with stress on interviewing techniques.
- M 1507 198
CREATIVE WRITING 3.0
Writing as a creative process with explorations in poetry, drama, fiction, and autobiography.

M 1507 205
ADVANCED WRITING SKILLS 3.0
 Advanced writing skills with stress on a personal writing style, adaptation of writing style to various subjects and audiences, and experimentation with different modes of exposition.

K 1507 206
BUSINESS WRITING 3.0
 Writing skills essential to the world of work with emphasis on correspondence, analytical reports and proposals.

K 1507 207
TECHNICAL WRITING 3.0
 Writing skills essential in technology, science and industry with emphasis on mechanism and process description, analysis of data, recommendation proposals and formal reports.

M 1507 210
CREATIVE WRITING DRAMA 3.0
 The nature of dramatic dialogue, the problem of form, the part played by the script in creation of a one-act play primarily by using student manuscripts.
Pre-requisite: M 1507 0198.

M 1507 212
CREATIVE WRITING POETRY 3.0
 Techniques and fundamentals of writing poetry through discussion and application to student manuscripts.
Pre-requisites: M 1507 198.

M 1507 214
FEATURE WRITING 3.0
 All aspects of writing personality profiles and of writing critical reviews, columns and/or sports features.

M 1507 215
CREATIVE WRITING PROSE 3.0
 Fundamentals and techniques of writing prose, fiction, essays and autobiography applied to extensive individual projects.
Pre-requisites: M 1507 198.

M 1507 216
HISTORY OF JOURNALISM IN AMERICA 3.0
 Evolution of the American press is examined through research and discussion of significant periods, individuals and issues from 1600 to the present.

M 1507 301
COOPERATIVE EDUCATION (ENGLISH) 8.0
 An outside the classroom English supervised employment experience related to academic study. Not included in major requirements.
Prerequisite: Permission of English faculty coordinator and the office of cooperative education.

M 1507 313
EDITING 3.0
 Copy editing, proofreading, a consideration of libel and, by criticizing, rewriting and writing articles, the development of accuracy, diction, and style.
Pre-requisites: 1507 114 or 1507 214.

M 1507 314
ADVANCED EDITING 3.0
 More sophisticated copy editing, proofreading, and consideration of libel in both articles and headlines and attention given to layout and production.
Pre-requisites: M 1507 313.

M 1507 315
MAGAZINE JOURNALISM 3.0
 Researching, writing, and placement of feature stories in mass circulation magazines.

M 1507 316
REPORTING OF PUBLIC AFFAIRS 3.0
 News articles on the activities of government at the local level through writing reports on the proceedings of civil and criminal court and city/county executive councils.
Pre-requisites: 1507 114, 1507 214, 1507 313 or permission of instructor.

M 1507 407
ADVANCED LITERARY ANALYSIS 3.0
 Writing the critical essay by applying major traditional and contemporary critical approaches to selected works and responding to them in scholarly writing.

M 1507 410
ADVANCED CREATIVE WRITING: DRAMA 3.0
 Writing of both the one-act and full-length play primarily through student manuscripts.
Pre-requisites: M 1507 210 and/or permission of instructor.

M 1507 412
ADVANCED CREATIVE WRITING: POETRY 3.0
 Writing of poetry with intensive class analyses and individual evaluative conferences.
Pre-requisites: M 1507 212 and/or permission of instructor.

M 1507 415
ADVANCED CREATIVE WRITING: PROSE 3.0
 Writing of prose with intensive class analyses and individual evaluative conferences.
Pre-requisites: M 1507 215 and/or permission of instructor.

M 1507 416
INTERPRETIVE JOURNALISM 3.0
 Emphasis is on studying and writing columns, editorials, and news articles. Students will compare different styles of interpretive reporting and work to develop their own skills in this area.

M 1507 491
SEMINAR IN WRITING 3.0
 Creative writing, expository writing, journalism, or theories of the teaching of composition for the advanced student. Enrollment limited.
Pre-requisites: Junior or Senior English majors and/or permission of instructor.

M 4903 196
INTRODUCTION TO THE FILM 3.0
 The history of both the American and European film from its beginning to the present with consideration of the artists and techniques that contribute to the finished film.

M 4903 297
LITERATURE AND SOCIOLOGY 3.0
 Literary works that mirror sociologists' views on such subjects as the individual versus communal values, class conflict, or conformity and protest.

M 4903 298
LITERATURE AND PSYCHOLOGY 3.0
 Major modern depth psychologies — Freudian, Jungian, Adlerian — in their world-wide literary portrayal of human character and action through investigating the alienated individual, love and marriage, parents and children and the quest for selfhood.

M 4903 299
LITERATURE AND ART IN THE WESTERN WORLD 3.0
 The relation between art and literature in literary, artistic and musical compositions representative of the tempers of classicism, romanticism and realism.

M 4903 399
DEVELOPMENT OF BLACK THOUGHT 3.0
 Dominant social, philosophical, theological and aesthetic movements in Afro-American literature primarily in non-fiction prose.

M 4903 460
SEMINAR IN CREATIVE MYTHOLOGY 3.0
 The import of mythology by applying archetypal and related theories to myth in literature, the arts, philosophy, religion, science and the social sciences.
Pre-requisite: M 1501 260.

Environmental, Urban and Geographic Studies

Chairperson: David K. Robertson

Environmental Studies tries to develop a systematic understanding of the environmental factors related to life; Physical factors (water, air, land) and societal, technological and behavioral factors. Their impact on life and their relationship to each other are the bases of courses in the program.

Graduates in the Environmental Studies major may continue the work in graduate school or find mid-management positions as environmental planners in both the public and private sector. The

program is also a good background for diverse careers in nature centers or even publishing.

The key issues of the contemporary world are urban issues, and the department focuses on these in the Urban Studies major. It prepares students with the technical skills to fully comprehend the consequences of modern urban growth and development. An important feature of this program is the full semester off-campus internship which enables students to work in public or private agencies according to career goals and interests.

Geography is the study of all natural and cultural elements found on the surface of the earth. In order to understand and study spatial relationships, the department attempts to foster the integration of natural, physical and social sciences. The major achieves broad scholarship and is designed for varied career plans.

Geography — Urban Studies Major

Required Courses

2206 100	Principles of Geography or	3
2206 101	Cultural Geography	3
2206 206	Introduction to American Urban Studies	3
2206 309	Research Methods in Geography and Urban Studies	
	or	
2206 310	Quantitative Methods in Geography and Urban Studies	3

Electives (departmental)

Select 24 sh from the appropriate list to be obtained
 from the department.....24

Urban Studies Minor

Required Courses

2206 206	Introduction to American Urban Studies	3
2206 462	People and Cities: Comparative Urban Studies.....	3
2206 463	Internship in Urban Studies.....	12
2206 464	Senior Seminar in (Urban Studies Internship)	3

Interdisciplinary Programs

The department of Geography and Urban Studies participates in several interdisciplinary programs: Transcultural studies, Asian studies, Latin American studies. It is possible for a student to design a career program in a number of professional fields. For information about this, see the department.

Courses of Instruction

N 2206 100
PRINCIPLES OF GEOGRAPHY 3.0
 The spatial distribution and significance of important geographic phenomena, such as atmospheric pressure and wind systems, climatic types, water bodies, landforms, soil types, natural resources and population distribution mapping techniques and map interpretation.

N 2206 101
CULTURAL GEOGRAPHY 3.0
 Concepts of cultural geography including culture hearth, diffusion processes and environmental perception. Emphasizes socio-cultural diversity of mankind and the spatial aspects of race, language, religion and ethnic groupings as categories of thought patterns and institutions that unite or separate human groups.

70 N 2206 109
MAN AND HIS ENVIRONMENT (ALSO LISTED AS T 2001 109) 3.0
 An interdisciplinary course which examines man's relationship to his natural environment, his reliance on it, his view on it, and his changes in it, and future human and environmental projections.

N 2206 201
CLIMATOLOGY 3.0
 Basic climate elements examined in terms of their influence on habitats and various aspects of human activities. The energy flux between atmosphere and biosphere affords a fundamental understanding of limitations in ecosystems development. Knowledge and climatic influences on health, clothing, human comfort, architecture, commerce and industry encourages the student to investigate new ways of living rationally within a climatic environment.

N 2206 202
GEOGRAPHY OF ANGLO-AMERICA 3.0
 Provides an understanding of the development of cultural, physical and economic landscape of the United States and Canada. Emphasizes elements of rapid change urbanization, industrial growth, transportation, trade patterns, distribution of population and modern agriculture.

N 2206 203
OUR FINITE EARTH: POPULATION AND RESOURCES 3.0
 Implications of the population explosion and the rising rate of resource consumption. Focuses on the alternate ways various societies can achieve equilibrium between population and economic development within the framework of limited world resources.

N 2206 204
PRINCIPLES OF LAND USE 3.0
 Geographical analysis of rural and urban land use patterns in the United States and the world. Field work stresses mapping techniques and socio-economic aspects of urban land use in the New York-New Jersey metropolitan area.

N 2206 206
INTRODUCTION TO AMERICAN URBAN STUDIES 3.0
 An interdisciplinary introduction to the development of American cities, with an emphasis on current patterns of urbanism and urbanization. The growth and evolution of urban structures, emerging urban and suburban cultural styles, and radical and reform responses to critical urban issues will be explored.

N 2206 209
AMERICAN CITYSCAPE: URBAN FORM AND ARCHITECTURE 3.0
 The evolution of American urban form and architecture from the colonial town to the contemporary metropolitan region; city plans and the emergence of professional planning; the architect and the urban environment cultural values; and changing urban forms and new town design.

N 2206 222
THE GEOGRAPHY OF LIFE AND DEATH 3.0
 Study of medical geography of diseases of man and their relationship to physical setting. Factors such as climate, soils, water nutrition and sanitation in relation to diseases will be analyzed world-wide. Human diseases also examined, national, regional, and local geographic conditions.

N 2206 252
HYDROLOGY (ALSO LISTED AS Z 1914 252) 3.0
 Water, its availability, distribution and usefulness. Hydrologic cycle examined in detail. Interaction with man and his usage. Applications to models and systematic processes.

N 2206 301
URBAN FIELD STUDIES 3.0
 Off-campus study of urban conditions in New York-New Jersey metropolitan area housing, mass transportation, social pathologies, inner city economics and the role of planning. On-campus discussion sessions alternate with field trips.

N 2206 303
FIELD GEOGRAPHY 3.0
 Geographic analysis of local region. Uses of reconnaissance and survey, interviews, maps and ground and aerial photographs in information gathering. Requires individual area study.

N 2206 304
GEOGRAPHY OF EUROPE 3.0
 The modern European landscape created by the activities, over many centuries, by a variety of peoples of differing cultural backgrounds, economic systems and ideologies.

N 2206 305
GEOGRAPHY OF EAST AND SOUTHEAST ASIA 3.0
 Regional analysis of East Asia (China, Japan) and Southeast Asia (Malaya, Indonesia) the physical and cultural landscape and the problems of economic development.

N 2206 306
GEOGRAPHY OF SOUTH ASIA 3.0
 Political, cultural and economic study of India. Pakistan and Bangladesh interrelationship between cultural and physical aspects of the regional landscape.

N 2206 308
LAND AND LIFE IN LATIN AMERICA 3.0
 Human use of local resources and the changes in the spatial arrangement of social and economic systems affected by resource modification.

N 2206 309
RESEARCH METHODS IN GEOGRAPHY AND URBAN STUDIES 3.0
 Primary and secondary source material in geographic and urban research. The use of maps, graphs, diagrams, charts, aerial photographs, slides and other graphic material.

N 2206 310
QUANTITATIVE METHODS IN GEOGRAPHY AND URBAN STUDIES 3.0
 Treatment of measurements and design in geography definition of problems, hypotheses formulation and tests of hypotheses by alternative methods of measurement. Geographic applications of computer methods, multi-variate analysis, systems analysis, data bank maintenance and evaluation.

N 2206 311
GEOGRAPHY OF MANUFACTURING 3.0
 The world's manufacturing activities measurement techniques analysis of the economic, cultural and geographic bases in industrialization plant location problems and the special situation of underdeveloped nations.
Pre-requisites. N 2206 300.

N 2206 312

HISTORICAL GEOGRAPHY OF THE UNITED STATES

(ALSO LISTED AS P 52205 312) 3.0

The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800; the rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1800.

N 2206 313

URBAN GEOGRAPHY

3.0

Spatial aspects of urban demography, post-World War II migration of the minorities to American urban centers and its impact on residential, commercial and industrial land use; the evolving pattern of population distribution in metropolitan areas with its resultant social and political problems.

N 2206 314

LOCATION OF ECONOMIC ACTIVITY

3.0

Organization of economic activity past and present refined with changes of more complex economic systems. Location factors such as physical and human resources, accessibility, routing, services, industrial sites and market advantages analyzed under varied conditions in different economic systems.

Pre-requisites: N 2204 101.

N 2206 317

MANAGING THE URBAN ENVIRONMENT

3.0

An advanced interdisciplinary investigation of the modern city and its suburbs, emphasizing the impact of selected social, political and economic issues.

N 2206 330

**CULTURE IN TRANSITION IN INDIA: AN ANTHROPO-
GEOGRAPHICAL APPROACH**

3.0

India in its geographical and socio-anthropological setting. The course focuses on the nature and processes bringing about transition in traditional values and social institutions. (Also listed as J 2202-330)

N 2206 331

URBANIZATION AND ENVIRONMENT

3.0

Examines interaction between man and the physical urban environment. Studies dynamic and physical processes as related to air, water and noise pollution, and hydrologic and geologic hazards.

N 2206 352

FLUVIAL GEOGRAPHY (ALSO LISTED AS Z 1914 352)

3.0

Detailed study of streams and rivers emphasizing processes causing variations of size and shape; the morphology of streams; and stream channel processes, quantitative techniques.

N 2206 401

**FUNDAMENTALS OF REMOTE SENSING OF
ENVIRONMENT**

3.0

Systematic study of multiband spectral reconnaissance of the environment; multifrequency radar systems and their uses.

Pre-requisite: 9 sh of geography.

N 2206 404

GEO-ECOLOGY

3.0

Spatial relations of the living environment. A systems approach to functional processes, characteristics and relationships of the ecological elements, i.e., soil, water, air, vegetation, etc. Both natural succession and man-induced changes including pollution, within the ecosystem.

N 2206 405

**COMPUTER APPLICATION IN GEOGRAPHY AND URBAN
STUDIES**

3.0

Theory and practice using a digital computer to solve problems encountered in geography. Fortran IV, computer solution of regressions, and Sympa (computer mapping).

N 2206 408

POLITICAL GEOGRAPHY

3.0

Main theories of the field and their application to selected political entities, current problem zones and the spatial interaction of nations.

N 2206 409

URBANIZATION IN WORLD PERSPECTIVE

3.0

Analysis of characteristics and patterns of urbanism and urbanization in world perspective. Studies multi-faceted problems created by rapid urbanization. Examines role of cities in regional development and modernization of rural sector in third world.

N 2206 411

PROBLEMS IN URBAN GEOGRAPHY

3.0

Seminar on the application of geographic concepts and theories to the analysis of urban problems. Field or library research projects by students on specific urban problems.

N 2206 412

GEOGRAPHY OF SUB-SAHARA AFRICA

3.0

Topical and regional study of African soils, vegetation, climate, physiography, mineral resources and other aspects of the physical environment in the light of man's habitation of the continent.

N 2206 413

GEOGRAPHY OF THE MIDDLE EAST

3.0

Topical study of area extending from Morocco to Iran arid land agriculture, nomadism, land tenure systems, settlement patterns, problems of industrial development, and socio-economic and military implications of region's oil wealth. Includes Arab culture and Islamic influences on urban and rural landscapes.

N 2206 419

GEOGRAPHY OF THE SOVIET UNION

3.0

Topical and regional analysis. Emphasizes demographic-ethnic composition of Soviet people, physical resource base, interregional relationships, and spatial effects of state planning programs.

N 2206 421

POPULATION PROBLEMS OF THE WORLD

3.0

Identification, description and analysis of the present-day distributional patterns of the world's people demographic trends, man-land ratios. Mobility, migration and socio-economics and geographic forces affecting world population. Techniques for measurement and analysis.

Pre-requisites: N 2206 200.

N 2206 423

CULTURE AND RESOURCE UTILIZATION

3.0

Evaluation and utilization of resources. Examines changes of characteristics of physical resources in relation to technological and cultural change, population increases, resource depletion and accelerated redundancy of man.

N 2206 424

GEOGRAPHY OF NEW JERSEY

3.0

Demographic and economic organization of the state. Spatial contrasts in population density suburban-central city interactions the influence of New York and Philadelphia on landscape organization. Philosophical concepts of regionalism and investigation of micro-regionalism in New Jersey.

N 2206 426

INDEPENDENT STUDY IN GEOGRAPHY

3.0

Preparation of a research paper or project to be presented to members of the staff.

N 2206 427
PRO-SEMINAR IN GEOGRAPHY 3.0
 Problem-oriented seminar specific topics in regional, cultural, physical, economic, political or historical geography. Content changes according to the needs of the instructor.

N 2206 428
URBAN STUDIES: LONDON AND THE BRITISH NEW TOWNS MOVEMENT 3.0
 An in-the-field study of London and the New Towns movement in the greater London metropolitan region. Students will meet with officials and planners in such agencies as the Department at Environment, New Towns Association, and Borough Government and study planning and design of a New Towns and Greenbelts contrasting social, political, economic, cultural and life styles of central city London and surrounding New Towns and urban redevelopment in central London.

N 2206 444
VILLAGE TO METROPOLIS: URBANIZATION IN LATIN AMERICA 3.0
 Examines urbanization in Latin America from Columbian times to the present. Portuguese and Spanish town planning practices and their evolution into modern times, including their impacts upon evolving urban morphology and subsequent metropolitanization.

N 2206 452
GEOHYDROLOGY (ALSO LISTED AS Z 1914 452) 3.0
 Ground water study of migration, chemistry and relation to the environment. Darcy's Law, soil porosity, soil permeability and well systems. Water pollutants and salt water incursions; spatial distributions and processes.

N 2206 456
HYDROCLIMATOLOGY (ALSO LISTED AS Z 1914 456) 3.0
 Climatology emphasizing moisture as one of the fundamental factors in climatic analysis processes and problems of classification and variability. Examines energy and water balance.

N 2206 461
SEMINAR IN INTERNATIONAL ECONOMIC GEOGRAPHY (ALSO LISTED AS C 2204 0461) 3.0
 An interdisciplinary seminar focusing the techniques of economics and geography on a common theme to achieve a synergistic conclusion.
Pre-requisites: Junior standing and one course in geography and C 2204 101 and C 2204 102.
Pre-requisites: N 2206 101, N 2206 102.

N 2206 462
PEOPLE AND CITIES COMPARATIVE URBAN STUDIES (ALSO LISTED AS J 2202 462 and P 2205 462) 3.0
 Introduction and cross-cultural investigation of the processes of urbanism and urbanization formation, structure and functioning of cities throughout the world.

N 2206 463
INTERNSHIP IN URBAN STUDIES 12.0
 A full semester internship in an urban agency. Students will be expected to carry out agency assignments, observe and participate in decision making processes and engage in middle management activities. Limited to seniors.
Pre-requisites: N 2206 206, N 2206 462, J 2202 462.

N 2206 464
SENIOR SEMINAR IN (URBAN STUDIES INTERNSHIP) 3.0
 A seminar to be taken in conjunction with the urban studies semester internship, and designed as a synthesis of the various approaches in urban studies which the student has acquired in previous urban-related courses. Each semester the seminar focuses upon a specific in-the-field research project, and an analysis and evaluation of the student's internship experience.
Pre-requisites: N 2206 206, N 2206 462.

Finance and Quantitative Methods

Chairperson, Chuan-Yu Chen

This department offers two concentrations within the Business Administration major. The concentration in Finance provides the student with a professional background in both corporate finance and investments. The courses in this concentration are planned on a sequential basis, and the student is advised to plan ahead and complete early the quantitative and economics courses.

The concentration in Quantitative Methods provides training in quantitative analytical methods for solving operational and research problems in industry. These methods, together with computer applications, are handled in-depth to permit a student to become comfortable using statistics, computer science, operations research, and similar quantitative subjects.

A Bachelor of Science degree is offered in this department.

Business Administration

Required Courses

	Semester	Hours
0502 201	Fundamentals of Accounting I.....	3
0502 202	Fundamentals of Accounting II.....	3
0501 261	Legal Environment of Business I.....	3
0503 270	Statistics for Business.....	4
0506 310	The Management Process.....	3
0506 315	Organizational Behavior.....	3
0504 321	Fundamentals of Finance.....	3
0509 340	The Marketing Process.....	3

0503 372	Management Science.....	4
0506 439	Business Policy.....	3
0503 463	Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113	Mathematics for Business I — Linear Algebra	3
1701 114	Mathematics for Business II — Calculus.....	3
2204 101	Principles of Economics (Macro)	3
2204 102	Principles of Economics (Micro).....	3

Concentration Programs Within the Major

FINANCE

Required Courses

	Semester Hours
0504 326 Investment Principles	3
0504 322 Capital Budgeting Management	3
0504 327 International Financial Management.....	3
2204 301 Money and Banking.....	3
Select one	
0504 328 Multinational Money Management.....	3
0504 423 Capital Structure Management.....	3
0504 425 Working Capital Management.....	3
0504 427 Security Analysis	3
0504 428 Portfolio Theory and Its Application	3
0504 429 Real Estate Investment.....	3

Electives (departmental)

Select 6 sh hours from the appropriate list to be obtained from the department.....6

QUANTITATIVE METHODS

Required Courses

Select Four	
0503 362 Business Economics.....	3
0503 371 Management Information Systems.....	3
0503 374 Computer Management	3
0503 375 Operations Analysis.....	3
0503 386 Logistics Systems.....	3
0503 474 Business Forecasting	3
0503 475 Quantitative Decision-Making For Business.....	3
0503 315 Production and Industrial Analysis.....	3

Courses of Instruction

D 0503 270
STATISTICS FOR BUSINESS 4.0
Modern statistical methods and decision making. Topics covered include descriptive statistics, probability theory, estimation sampling, decision analysis, non-parametric methods, regression and time series analysis.
Pre-requisites: Y 1701 113, Y 1701 114.

D 0503 274
BUSINESS COMPUTER PROGRAMMING 3.0
Problem-oriented programming languages are studied. Business applications will be programmed in FORTRAN and COBOL. Such programs will be debugged via the computer.

D 0503 315
PRODUCTION AND INDUSTRIAL ANALYSIS 3.0
This course is mainly designed to expose students to production aspects of industries. It will develop theories and applications in the areas of location and facilities, capacity planning, facilities design and layout, designing assembly line production systems, facilities maintenance and materials handling, purchasing, inventory control systems, forecasting demand for products, master scheduling and MRP, scheduling and control systems, and quality and statistical quality control.
Pre-requisites: D 0503 270 Majors only, E 0506 310 Instructor's *permiss.*

D 0503 362
BUSINESS ECONOMICS 3.0
Managerial decision-making the economic meaning and interpretation of demand and supply, production, competition, cost, price and capital investment. Some mathematical methods, case problems, model-building devices to develop forecasting and decision-making skills.
Pre-requisites: C 2204 101OR, C 2204 102, E 0506 310.

D 0503 371
MANAGEMENT INFORMATION SYSTEMS 3.0
Total information systems from the perspective of organizations. Information from the management point of view its needs, cost and value. Definition and analysis in the solution of systems problems. The computer as a tool of processing accounting, marketing and financial information for decision-making and policy-setting.
Pre-requisites: A 0502 202, E 0506 310, D 0503 270.

D 0503 372
MANAGEMENT SCIENCE 4.0
The student is exposed to a wide variety of mathematically oriented problem solving techniques used in the modern business world. Included are topics of decision theory, inventory theory, linear programming, transportation analysis game theory, Markov analysis, queueing theory, and pert.
Pre-requisites: E 0506 310, D 0503 270, D 0503 272.

D 0503 374
COMPUTER MANAGEMENT 3.0
Optimum selection of computer hardware, software and operating systems among various alternatives, from a cost effectiveness point of view.
Pre-requisites: D 0503 371.

D 0503 375
OPERATIONS ANALYSIS 3.0
Mathematical and statistical methods in the analysis of specific business systems and industrial production activities inventory control, production planning and scheduling, and capital management. Computers used to solve problems involving complex calculations.
Pre-requisites: D 0503 372.

D 0503 386
LOGISTICS SYSTEMS 3.0
The logistics sub-system in the economy and the firm, definitive methods of attacking logistics problems. Relationships among logistics components (transportation, materials handling, warehousing, packaging, inventory holding and location theory), and the inter-face of logistics activities and other functional areas of business.
Pre-requisites: E 0506 310, F 0509 340.

D 0503 463
ADMINISTRATIVE RESEARCH METHODOLOGY AND ANALYSIS 3.0
 Scientific investigation data sources, research methods, statistical techniques, analysis and interpretation of data. Individual and team investigation and reporting on current problems.
Pre-requisites: D 0503 272, Senior standing.

D 0503 474
BUSINESS FORECASTING 3.0
 Mathematical and econometric models for short and long-range business forecasting. Models evaluated for accuracy the computer as a tool in developing automated forecasting systems.
Pre-requisites: D 0503 270.

D 0503 475
QUANTITATIVE DECISION MAKING FOR BUSINESS 3.0
 Decision-making under conditions of certainty, risk, uncertainty, conflict and competition. The theoretical basis for management decisions and elements of the process. The theory of games and simulation applied to typical managerial problems.
Pre-requisites: E 0506 310, F 0509 340, D 0503 270.

D 0504 321
FUNDAMENTALS OF FINANCE 3.0
 The statement of sources and uses of funds determining specific assets to acquire, and financing them. Financial institutions, debt and equity instruments of finance, short and long-term financing, insuring against risk and uncertainty, optimum capital structure, selection of alternative investments, and dividend and interest policies.
Pre-requisites: A 0502 202, C 2204 101, C 2204 102.

D 0504 322
CAPITAL BUDGETING MANAGEMENT 3.0
 Analysis of capital expenditures under certainty and uncertainty, lease or purchase decision, mergers and acquisitions, capital reinvestment, extensive use of quantitative tools. Case studies from business situations and current readings.
Pre-requisites: C 2204 101, C 2204 102, D 0503 270.

D 0504 326
INVESTMENT PRINCIPLES 3.0
 Financial assets and markets, investor's attitude, goals and constraints, risk-return characteristics of securities analysis of the company, the industry and the market and other factors affecting the risk-return combination introduction to valuation of securities and portfolio management.
Pre-requisites: D 0504 321, C 2204 101, C 2204 102.

D 0504 327
INTERNATIONAL FINANCIAL MANAGEMENT 3.0
 A description and analysis of the unique financial opportunities and problems facing the firm involved in international business activities. Techniques include sources and uses of funds in international environment, short-term international cash and securities management, hedging techniques, capital budgeting and capital costs for the international firm.
Pre-requisites: D 0504 321.

D 0504 328
MULTINATIONAL MONEY MANAGEMENT 3.0
 Planning of cash management for the firm from the multinational perspective cash flows and current assets and liabilities are analyzed as they are affected by multinational tax regulations, foreign exchange rates, international market situations and government policies. The impact of currency movements on financial statements, e.g., under FASB Nos. 8, 12, etc. and computer implications and applications will be considered.
Pre-requisites: A 0502 202, D 0504 321.

D 0504 423
CAPITAL STRUCTURE MANAGEMENT 3.0
 Development of a firm's optimum capital structure. Analysis of traditional attitudes on debt-equity, Modigliani and Miller's hypothesis, and other leading authors' attitudes from current literature. Cost of capital to growing companies and stable companies for common stock, debt, preferred stock and retained earnings dividend policies, public offerings.

D 0504 425
WORKING CAPITAL MANAGEMENT 3.0
 Detailed analysis of a corporation's sources and uses of short-term funds optimum levels of cash, inventory, accounts receivable, and accounts payable depreciation use of surplus cash, commercial paper and financial intermediaries.
Pre-requisites: D 0504 321.

D 0504 427
SECURITY ANALYSIS 3.0
 Critical examination of investment theories analysis of securities, primarily of private corporations evaluations of factors affecting the return from a security forecasting the return-risk characteristics of stocks and bonds introduction to portfolio strategies and workable criteria for the selection (or rejection) of these securities.
Pre-requisites: D 0504 326.

D 0504 428
PORTFOLIO THEORY AND ITS APPLICATIONS 3.0
 Application of covariance principle in valuation of securities, critical look into management of risk in financial investments, application of this portfolio theory in investment strategies and management of financial institutions, their specific problems, constraints, goals and strategies.
Pre-requisite: 6 credits in finance.

D 0504 429
REAL ESTATE INVESTMENT 3.0
 Covers mortgage financing, ownership forms, tax factors, inflation, leverage, risk/return, cash flow projection, holding period, and disposition strategy. Examines the rent or buy housing decision land, apartment building, office building, and shopping center investments and the current investment climate.
Pre-requisite: D 0504 321

Fine Arts

Chairperson: Charles Martens

The Fine Arts Department offers a Bachelor of Fine Arts and a Bachelor of Arts degree on the undergraduate level. Students applying as studio majors; whether for B.F.A. or B.A., must successfully complete a portfolio review to be accepted into the department. All studio majors are described as B.A. candidates until the second semester of sophomore year; when a portfolio

examination is required to determine acceptance into the B.F.A. or the B.A. program of the student's choice. Applicants for art history do not need the initial or the sophomore portfolio examination.

The B.F.A. degree program is a pre-professional program with concentrations in: ceramics, drawing, fabrics, film making, graphic design, illustration, jewelry, multi-media, painting, photography, printmaking, and sculpture. Courses in each concentration give intensive pre-professional experience that prepares students for involvement as artists, graphic designers, and illustrators.

The B.A. is a liberal arts degree with four programs: art history, art education, studies in the visual arts, and studio. The art history program is for students interested in the history and development of art. The program in fine arts education leads to certification to teach in public schools, and is intended for students who want to teach art in schools, museums, and community centers. Studies in visual arts is for students seeking an understanding and appreciation of the visual arts. The program in studio is for students interested in liberal arts, with a studio concentration.

Studio Major (BFA)

A preprofessional program for students who seek preparation as artists.

Required Courses

	Semester Hours
1001 101 Foundations of Visual Organization I.....	3
1001 102 Foundations of Visual Organization II.....	3
1001 107 Drawing I.....	3
1001 201 Color Studies I.....	3
1001 220 Life Drawing I.....	3
1003 105 Art and Civilization I.....	3
1003 106 Art and Civilization II.....	3
1003 451 Contemporary Art.....	3
Studio Electives.....	15
Major Studio.....	28
Art History Electives.....	6
1002 215 Art Forum.....	2
1003 462 Senior Seminar.....	3
1091 489 Exhibition Workshop.....	3

Art History Major (BA)

A liberal arts program for students whose interest is in the study of the history and development of the art of mankind in all its variations from antiquity to the twentieth century.

Required Courses

	Semester Hours
1001 101 Foundations of Visual Organization I.....	3
1001 102 Foundations of Visual Organization II.....	3
1003 105 Art and Civilization I.....	3
1003 106 Art and Civilization II.....	3
1003 462 Senior Seminar.....	3
1003 463 Resources and Methods of Research in the Arts.....	3
One Ancient art history course.....	3
One Medieval art history course.....	3
One Renaissance art history course.....	3
One Baroque art history course.....	3
19th or 20th century art history course.....	3
Art history elective.....	3
Studio, Museum Practice, Externship.....	6
Collateral courses	
1103 123 and 134 Intermediate German I and II.....	6

1102 101 and 112 Beginning French I and II.....	6
1509 202 Logic.....	3
1509 206 Contemporary Aesthetics.....	3
1599 Old Testament.....	3
1599 New Testament.....	3
4309 285 Classical Mythology.....	3
Theatre history elective.....	3
Electives (general).....	7-16

Visual Arts Major (BA)

A liberal arts program for students seeking an understanding and an appreciation of the visual arts.

Required Courses

	Semester Hours
1003 463 Resources and Methods of Research in the Arts.....	3
1003 456 Modern Philosophies of Art.....	3
One Studio Course.....	3
3 courses from the following:	
1010 299 History of the Cinema as Art.....	3
1090 401 History of Textiles.....	3
1011 484 History of Photography.....	3
4921 464 History of the Print.....	3
4922 478 Art in Public Places.....	3
4922 340 Selected Problems in Urban Cultural Development.....	3
2208 341 History of City Form.....	3
2208 307 The City and the Arts.....	3
2208 332 Sociology of Popular Arts.....	3
1003 326 The Critical Approach.....	3
1003 451 Contemporary Art.....	3

Fine Arts Education (BA)

A degree program for students who wish to teach art in various settings including museums, community centers, and schools. Certification is for grades kindergarten through 12.

Required Courses

	Semester Hours
1001 101 Foundations of Visual Organization I.....	3
1001 102 Foundations of Visual Organization II.....	3
1003 105 Art and Civilization I.....	3
1003 106 Art and Civilization II.....	3
1001 201 Color Studies I.....	3
1001 107 Drawing I or 1001 220 Life Drawing I.....	3
0831 400 Foundations of Methods and Curriculum in Art Education II.....	3
1002 200 Painting I.....	3
1090 202 Ceramics I: Pottery and Sculpture I.....	3
1090 204 Fibers and Fabrics I.....	3
1001 209 Theatre Arts I.....	3
1002 211 Sculpture I.....	3
1001 212 Designing Communications I.....	3
4921 120 Introduction to Printmaking.....	3
1090 218 Metalwork and Jewelry I.....	3
1011 213 Introduction to Photography: A Contemporary Art Form I.....	3
Electives (departmental).....	2

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching.

Studio (BA)

A liberal arts program for students who want a studio concentration.

Required Courses

	Semester Hours
1001 101 Foundations of Visual Organization I.....	3
1001 102 Foundations of Visual Organization II.....	3
1003 105 Art and Civilization I.....	3
1003 106 Art and Civilization II.....	3
1003 451 Contemporary Art.....	3
1001 107 Drawing I.....	3
1001 201 Color Studies I.....	3
1001 220 Life Drawing I.....	3
Electives (departmental) Select 13 sh from the appropriate list to be obtained from the department.	

Interdepartmental and Interdisciplinary Studies

The School of Fine and Performing Arts believes that interdisciplinary studies are best undertaken from a foundation in a traditional area. Students interested in such studies are therefore required to complete a B.A. concentration in one of the School's departments. To this they add a coherent group of courses in other areas of interest. In some cases, such a group may be an established minor; like computer science or archeology. In other cases, the group may consist of the core courses of a broad discipline, for example, the general business core. On some occasions, students may wish to design their own work in consultation with a faculty member and the academic advisor.

Students interested in interdisciplinary studies should consult the academic advisor as early in their freshman year as possible.

Courses of Instruction

G 0831 200
CREATIVE USE OF MEDIA FOR ART EDUCATION 3.0
 The development of creative effects through the use of audio-visual equipment by exploration of ways and means suitable to the visual arts area. Art films, slides, two and three-dimensional materials, light and sound techniques.

G 0831 300
FOUNDATIONS OF METHODS AND CURRICULUM IN ART EDUCATION I: K-12 3.0
 Philosophical and theoretical basis of fine arts education; the sources of creativity. Concepts of visual literacy and the role of art in individual human experience and in society; organization and presentation of experience, curriculum construction and application of theory to the school, museum, community center, adult education and other teaching situations. For Fine Arts Education majors this course must be taken simultaneously with Teacher School and Society in the Spring of the Junior year.
Pre-requisites: 7 2001 101, 7 2001 200 Majors only.

G 0831 305
THE URBAN ART TEACHER 3.0
 The role of the art teacher in a public school setting, urban and inner-city. Environment, facilities, equipment, supplies and professional interaction.

G 0831 310
GROUP ART THERAPY AND CREATIVITY DEVELOPMENT 3.0
 Insight into self-behavior through student participation, a deepening appreciation of the creative process, understanding of self and the relationship between art and psychology.

G 0831 400
FOUNDATION OF METHODS AND CURRICULUM IN ART EDUCATION II: K-12 3.0
 Organization and presentation of art experiences for a wide variety of teaching situations, including K-12, adult classes, museum settings and community centers. Exploration of media, understanding their expressive range, proficiency in their use, and adaptation to various teaching goals. Integration of theory and media.
Pre-requisites: G 0831 300 Majors only.

G 0831 410
INTRODUCTION TO ART THERAPY AND CREATIVITY DEVELOPMENT 3.0
 Art media are used to create forms that express feeling-thinking patterns; discussion aimed at recognizing how art forms reflect assumptions, attitudes and choices; a variety of modalities used in processing personal symbolism, fantasy and dreams.

G 0831 411
LIGHT AND SOUND FORMS FOR USE IN ART EDUCATION 3.0
 Light and sound forms; emphasis on creative use of media for performance. Sources and competencies related to the K-12 art curriculum as a humanities resource, will be studied.

G 1001 100
INTRODUCTION TO THE VISUAL ARTS 3.0
 The ways in which man has expressed himself in the visual arts including painting, ceramics, sculpture, weaving, print making, architecture, the theater, motion pictures and photography, explored through studio work, demonstrations and trips to art sources. The nature and experience of art, their significance to the individual and their role in a culture. For non-majors.

G 1001 101
FOUNDATIONS OF VISUAL ORGANIZATION I 3.0
 Foundations of visual organization, structured to develop the visual and verbal vocabulary through studio experience, lectures and discussions. Perception is heightened by emphasis on light, line, color, plane, texture, form, shape, and time as basic elements in all art form. Two and three dimensional concepts introduced through a variety of materials and processes. Reading and assignments, museum and gallery visits. Required for all art majors.

G 1001 102
FOUNDATIONS OF VISUAL ORGANIZATION II 3.0
Continuation of G 1001 101. Required of all art majors.
Pre-requisite: G 1001 101.

G 1001 103
VISUAL ARTS STUDIO I 3.0
The art forms (painting, sculpture, drawing, crafts) experienced through exploration of nature, found and manufactured materials. Creative experiences in studio work relating art to the student's primary area of knowledge; the part art experience can play in his life. For students with limited experience.

G 1001 104
VISUAL ARTS STUDIO II 3.0
Continuation of G 1001 103. For students with limited experience.
Pre-requisite: G 1001 103 Instructor's permission.

G 1001 107
DRAWING I 3.0
Basic elements of line, point, shape, figure ground, and space relationships.

G 1001 114
SOURCES: AN EXPLORATION OF THE CREATIVE PROCESS 3.0
The fundamental awareness which underlies all artistic endeavors (art, music, drama, poetry literature). Releasing creative blocks and inhibitions through exercises and assignments to stimulate the imagination and awaken the core creative self.

G 1001 115
TECHNIQUE-INCREASED PERCEPTION 3.0
Exercises designed to increase perception through intense observation, the resulting insights developed into being a personal form of self expression. Emphasis on the process of art rather than the product.

G 1001 201
COLOR STUDIES I 3.0
Color and its interaction through problems in color relatedness; systems and theories; color usage, the development of skills in paint application, use of colored papers and techniques of presentation. Lectures, discussions reading assignments, museum and gallery visits.
Pre-requisites: G 1001 101, G 1001 102 or instructor's permission.

G 1001 209
THEATER ARTS I 3.0
Visual art aspects of the theater with emphasis on techniques of group planning; scenery design and preparation, lighting, special effects, sound, slides, film, dance, puppets and marionettes.

G 1001 210
THEATER ARTS II 3.0
Continuation of G 1001-209.
Pre-requisite: G 1001 209.

G 1001 211
INTRODUCTION TO PAPERMAKING 3.0
Basic methods of making handmade paper as an art form; history and basic principles of handmade paper; contemporary directions and methods of forming.
Pre-requisite: G 1001 101, Majors only.

G 1001 212
COMMUNICATION DESIGN I 3.0
How an artist can shape the process of communication. Principal themes of commercial design, the invention and design of products; advertising; the presentation and selling of ideas and products; awareness of interaction; the design of signs, signals and symbols; costume design and the world of fashion. Techniques are given to promote the process of discovery and invention and an understanding of art applied in a social context.
Pre-requisite: G 1001 101.

G 1001 215
DRAWING II 3.0
Continuation of G 1001 107.
Pre-requisite: G 1001 107.

G 1001 220
LIFE DRAWING I 3.0
The structure and proportions of the human form. Expressive drawing is emphasized.

G 1001 275
DRAWING III 3.0
Continuation of G 1001 215.
Pre-requisite: G 1001 215.

G 1001 301
COLOR STUDIES II 3.0
Continuation of G 1001 201.
Pre-requisite: G 1001 201.

G 1001 306
THEATER ARTS III 3.0
Continuation of G 1001 210.
Pre-requisite: G 1001 306, Instructor's permission.

G 1001 307
THEATER ARTS IV 3.0
Continuation of G 1001 306.
Pre-requisite: G 1001 306, Instuctors permission.

G 1001 311
INTERMEDIATE PAPERMAKING I 3.0
Continuation of G 1001-211. Two dimensional and three dimensional forms.
Pre-requisite: G 1001 211 Majors only.

G 1001 313
COMMUNICATION DESIGN II 3.0
Continuation of G 1001 212.
Pre-requisite: G 1001 212.

G 1001 314
INTERMEDIATE PAPERMAKING II 3.0
Continuation of G 1001-311. Two dimensional and three dimensional forms.
Pre-requisite: G 1001 311 Majors only.

G 1001 315
DRAWING IV 3.0
Continuation of G 1001 275.
Pre-requisite: G 1001 275

G 1001 321
LIFE DRAWING II 3.0
Continuation of G 1001 220.
Pre-requisite: G 1001 220.

G 1001 339
VISUAL ARTS STUDIO III 3.0
Continuation of G 1001 104. For students with limited experience.
Pre-requisite: G 1001 104 Instructor's permission.

G 1001 340
DRAWING V 3.0
Continuation of G 1001 315.
Pre-requisites: G 1001 315.

G 1001 345
MULTI-MEDIA I 3.0
Group work to create a multi-media environment and to perform a multi-media mix creation of the theatrical, architectural, sculptural and technological props and the program for the mix; the psychology of a total art experience.

G 1001 350
INDEPENDENT STUDY 1-6.0
Topics for investigation selected with approval of the instructor. May be repeated for credit.

G 1001 400
INDEPENDENT STUDY IN FOUNDATIONS
OF VISUAL ORGANIZATION I 3.0
Topics for investigation selected with the approval of the instructor.

G 1001 401
INDEPENDENT STUDY IN FOUNDATIONS
OF VISUAL ORGANIZATION II 3.0
Topics for investigation selected with the approval of the instructor.
Pre-requisite: G 1001 400.

G 1001 402
INDEPENDENT STUDY IN FOUNDATIONS
OF VISUAL ORGANIZATION III 3.0
Topics for investigation selected with the approval of the instructor.
Pre-requisite: G 1001 401.

G 1001 403
INDEPENDENT STUDY IN FOUNDATIONS
OF VISUAL ORGANIZATIONS IV 3.0
Topics for investigation selected with the approval of the instructor.
Pre-requisite: G 1001 402.

G 1001 404
INDEPENDENT STUDY IN DRAWING I 3.0
Topics for investigation selected with the approval of the instructor.

G 1001 405
INDEPENDENT STUDY IN DRAWING II 3.0
Topics for investigation selected with the approval of the instructor.
Pre-requisite: G 1001 404.

G 1001 406
INDEPENDENT STUDY IN DRAWING III 3.0
Topics for investigation selected with approval of the instructor.
Pre-requisite: G 1001 405.

G 1001 407
INDEPENDENT STUDY IN DRAWING IV 3.0
Topics for investigation selected with the approval of the instructor.
Pre-requisite: G 1001 406.

G 1001 411
ADVANCED PAPERMAKING I 3.0
Continuation of G 1001 314. Development of personal expression and direction in the body of work produced.
Pre-requisite: G 1001 314 Majors only.

G 1001 420
INDEPENDENT STUDY-THEATER ARTS 3.0
Topics for investigation selected with the approval of the instructor.

G 1001 425
MAJOR STUDIO PROJECT I (B.F.A.) 3.0
With faculty advisement, each senior student will design and develop a studio project in a chosen area of specialization. The body of the work will be completed in major studio project II.
Pre-requisite: Permission of B.F.A. co-ordinator.

G 1001 440
ADVANCED PAPERMAKING II 3.0
Continuation of G 1001 411. Development of personal expression and direction in the body of work produced.
Pre-requisite: G 1001 411.

G 1001 441
LIFE DRAWING III 3.0
Continuation of G 1001 321.
Pre-requisite: G 1001 321.

G 1001 442
LIFE DRAWING IV 3.0
Continuation of G 1001 441.
Pre-requisite: G 1001 441.

G 1001 443
INDEPENDENT STUDY IN LIFE DRAWING I 3.0
Topics for investigation selected with approval of the instructor.

G 1001 444
INDEPENDENT STUDY IN LIFE DRAWING II 3.0
Topics for investigation selected with approval of the instructor.
Pre-requisites: G 1001 443.

G 1001 446
MULTI-MEDIA II 3.0
Continuation of G 1001 345.
Pre-requisite: G 1001 345.

G 1001 448
CRITIQUE IN ART 1.0
Discussions of their work by students from various studio areas. Visiting artists will occasionally join. For fine arts majors of advanced standing.

G 1001 450
MAJOR STUDIO PROJECT II (B.F.A.) 10.0
With faculty advisement, each senior student will complete and present a body of work in an area of extended specialization, the same area of specialization already established and explored in Major Studio I.
Pre-requisite: G 1001 425; Permission of BFA Coordinator.

G 1001 465
EXTERNSHIP AND FIELD EXPERIENCE I 2-8.0
Involvement beyond the campus in a museum, art institution, or industry, participation in inner-city art programs, or study with an independent or artist or artist-craftsman. Approval by a supervising faculty member required. Total semester hours from externship and field experience courses combined (1001 465, 466, 467, 468) shall not exceed 8 hrs.
Pre-requisite: Instructor's permission.

G 1001 466 EXTERNSHIP AND FIELD EXPERIENCE II Continuation of G 1001 465. <i>Pre-requisite: G 1001 465; Instructor's permission.</i>	2-8.0	G 1002 247 SCULPTURE: FABRICATION I Sculpture formed by constructive methods. Form and space relationships; a professional sequence of drawings, model building, testing of materials, joining methods, full-scale execution. Size of finished work will be not less than one cubic yard and not greater than the metropolitan area. Museum visits and reading assignments.	3.0
G 1001 467 EXTERNSHIP AND FIELD EXPERIENCE III Continuation of G 1001 466. <i>Pre-requisite: G 1001 466; Instructor's permission.</i>	2-8.0	G 1002 248 SCULPTURE: WELDING — BRAZING I Sculpture in metal realized through welding, brazing and soldering. Various metals used in a variety of processes to develop three-dimensional works. Museum visits and reading assignments.	3.0
G 1001 468 EXTERNSHIP AND FIELD EXPERIENCE IV Continuation of G 1001 467. <i>Pre-requisite: G 1001 467; Instructor's permission.</i>	2-8.0	G 1002 249 SCULPTURE: CLAY I The use of clay to create sculptural forms; emphasis on developing skills and strengthening understanding of sculpture as an art form. Finished works may be composed of fired clay or unfired clay or clay in combination with other materials. <i>Pre-requisite: G 1090 202 Majors only.</i>	3.0
G 1001 475 DRAWING VI Continuation of G 1001 340. <i>Pre-requisite: G 1001 340.</i>	3.0	G 1002 254 SCULPTURE: MODELING AND CASTING II Continuation of G 1002 244. <i>Pre-requisite: G 1002 244.</i>	3.0
G 1001 486 VISUAL ARTS STUDIO IV Continuation of G 1001 339. For students with limited experience. <i>Pre-requisite: G 1001 339.</i>	3.0	G 1002 255 SCULPTURE: CARVING II Continuation of G 1002 245. <i>Pre-requisite: G 1002 245.</i>	3.0
G 1002 200 PAINTING I Exploration of painting media and modes of expression. Reading, gallery and museum visits.	3.0	G 1002 256 SCULPTURE: METAL CASTING II Continuation of G 1002 246. <i>Pre-requisite: G 1002 246.</i>	3.0
G 1002 201 PAINTING II Continuation of G 1002 200. <i>Pre-requisite: G 1002 200.</i>	3.0	G 1002 257 SCULPTURE: FABRICATION II Continuation of G 1002 247. <i>Pre-requisite: G 1002 247.</i>	3.0
G 1002 211 SCULPTURE I Sculptural concepts using materials like plaster, metal, plastics, stone and wood. Gallery and museum visits.	3.0	G 1002 258 SCULPTURE: WELDING — BRAZING II Continuation of G 1002 248. <i>Pre-requisite: G 1002 248.</i>	3.0
G 1002 212 SCULPTURE II Continuation of G 1002 211. <i>Pre-requisite: G 1002 211.</i>	3.0	G 1002 259 SCULPTURE: CLAY II Continuation of G 1002 249. <i>Pre-requisite: G 1002 249 Majors only.</i>	3.0
G 1002 215 ART FORUM Talks and presentations by artists, critics, museum directors, art historians. May be repeated for credit.	2.0	G 1002 260 METALS I Production of sculpture through the casting or welding processes. With the permission of the instructor, a student may elect to concentrate in one of these areas throughout the semester, explore both approaches to metal sculpture or combine both processes in finished pieces. Slide lectures, critiques and visits to the galleries and museums in New York. <i>Pre-requisite: G 1002 246, G 1002 247 or permission of instructor.</i>	3.0
G 1002 244 SCULPTURE: MODELING AND CASTING I Forming by the additive process using one or more mold-making techniques, clay plaster, cement and plastics. Further modeling and casting processes. Museum visits and reading assignments.	3.0	G 1002 270 METALS II Continuation of G 1002-260. <i>Pre-requisite: G 1002 260.</i>	3.0
G 1002 245 SCULPTURE: CARVING I Sculpture formed by the subtractive process of carving in wood and/or stone primarily; techniques of sharpening, making and maintaining tools. Museum visits and reading assignments.	3.0		
G 1002 246 SCULPTURE: METAL CASTING I Basic technology of metal casting in the lost wax process. Experimentation with the various materials related to the casting process, modeling, spruing and venting, investment of the model, burn-out of the mold, pouring the metal, cleaning, chasing and finishing the metal cast. Museum visits and reading assignments.	3.0		

G 1002 308 SCULPTURE III Continuation of G 1002 212. <i>Pre-requisite: G 1002 212.</i>	3.0	G 1002 410 INDEPENDENT STUDY: PAINTING III Topics for investigation selected with approval of instructor. <i>Pre-requisite: G 1002 409.</i>	3.0
G 1002 309 SCULPTURE IV Continuation of G 1002 308. <i>Pre-requisite: G 1002 308.</i>	3.0	G 1002 411 INDEPENDENT STUDY: PAINTING IV Topics for investigation selected with approval of instructor. <i>Pre-requisite: G 1002 410.</i>	3.0
G 1002 316 PAINTING III Continuation of G 1002 201. <i>Pre-requisite: G 1002 201.</i>	3.0	G 1002 415 PAINTING V Continuation of G 1002 317. <i>Pre-requisite: G 1002 317.</i>	3.0
G 1002 317 PAINTING IV Continuation of G 1002 316. <i>Pre-requisite: G 1002 316.</i>	3.0	G 1002 416 PAINTING VI Continuation of G 1002 415. <i>Pre-requisite: G 1002 415.</i>	3.0
G 1002 344 SCULPTURE: MODELING AND CASTING III Continuation of G 1002 254. <i>Pre-requisite: G 1002 254.</i>	3.0	G 1002 421 INDEPENDENT STUDY: SCULPTURE I Topics for investigation selected with approval of instructor.	3.0
G 1002 345 SCULPTURE: CARVING III Continuation of G 1002 255. <i>Pre-requisite: G 1002 255.</i>	3.0	G 1002 422 INDEPENDENT STUDY: SCULPTURE II Topics for investigation selected with approval of instructor. <i>Pre-requisite: G 1002 421.</i>	3.0
G 1002 346 SCULPTURE: METAL CASTING III Continuation of G 1002 256. <i>Pre-requisite: G 1002 256.</i>	3.0	G 1002 423 INDEPENDENT STUDY: SCULPTURE III Topics for investigation selected with approval of instructor. <i>Pre-requisite: G 1002 422.</i>	3.0
G 1002 347 SCULPTURE: FABRICATION III Continuation of G 1002 257. <i>Pre-requisite: G 1002 257.</i>	3.0	G 1002 424 INDEPENDENT STUDY — SCULPTURE IV Topics for investigation selected with approval of instructor. <i>Pre-requisite: G 1002 423.</i>	3.0
G 1002 348 SCULPTURE: WELDING — BRAZING III Continuation of G 1002 258. <i>Pre-requisite: G 1002 258.</i>	3.0	G 1002 447 PAINTING THE ENVIRONMENT Interpretation of landscape as a unique source of pictorial ideas; the history of landscape painting. <i>Pre-requisite: Instructor's permission.</i>	3.0
G 1002 349 SCULPTURE: CLAY III Continuation of G 1002 259. <i>Pre-requisite: G 1002 259.</i>	3.0	G 1002 449 ART AND TECHNOLOGY Innovative techniques in design, painting and sculpture involving new media; simple technology methods that can be readily employed in search of new forms. <i>Pre-requisite: Instructor's permission.</i>	3.0
G 1002 350 METALS III Continuation of G 1002 270. <i>Pre-requisite: G 1002 270.</i>	3.0	G 1002 450 METALS IV Continuation of G 1002 350. <i>Pre-requisite: G 1002 350.</i>	3.0
G 1002 361 FIGURATIVE PAINTING Rendering the human figure and expressing creative insights into figurative painting. <i>Pre-requisites: G 1002 200, instructors permission.</i>	3.0	G 1002 488 SCULPTURE: MODELING AND CASTING IV Continuation of G 1002 344. <i>Pre-requisite: G 1002 344.</i>	3.0
G 1002 408 INDEPENDENT STUDY: PAINTING I Topics for investigation selected with approval of instructor.	3.0	G 1002 489 SCULPTURE: CLAY IV Continuation of 1002 349. <i>Pre-requisite: G 1002 349 Majors only.</i>	3.0
G 1002 409 INDEPENDENT STUDY: PAINTING II Topic for investigation selected with approval of instructor. <i>Pre-requisite: G 1002 408.</i>	3.0	G 1002 495 SCULPTURE: CARVING IV Continuation of 1002 345. <i>Pre-requisite: G 1002 345.</i>	3.0

- G 1002 496
SCULPTURE: METAL CASTING IV 3.0
Continuation of 1002 346.
Pre-requisite: G 1002 346.
- G 1002 497
SCULPTURE: FABRICATION IV 3.0
Continuation of 1002 347.
Pre-requisite: G 1002 347.
- G 1002 498
SCULPTURE: WELDING — BRAZING IV 3.0
Continuation of G 1002 348.
Pre-requisite: G 1002 348.
- G 1003 105
ART AND CIVILIZATION I 3.0
The history of art from its beginning to the present. Museum visits and extensive reading. Required for fine arts majors.
- G 1003 106
ART AND CIVILIZATION II 3.0
Continuation of 1003 105. Required for Fine Arts Major.
Pre-requisite: G 1003 105.
- G 1003 215
ANCIENT ART 3.0
The origins of man's art and the civilizations of the ancient world: Paleolithic man and the Sumerian, Hittite, Assyrian, Phoenician and Egyptian civilizations.
- G 1003 216
RENAISSANCE ART IN ITALY: THE FIFTEENTH CENTURY 3.0
The formation of Renaissance painting, sculpture and architecture during the Quattrocento; Masaccio, Mantegna, Donatello, Brunelleschi, and Alberti emphasized.
- G 1003 217
SELECTED MASTERPIECES WORLD ART 3.0
An introduction to key works of art representing prehistoric cultures, the ancient world, the East, the Renaissance, and the modern period. Museum and gallery trips, reading and discussion. For students majoring in other fields.
- G 1003 322
EARLY CHRISTIAN — BYZANTINE ART 3.0
The emergence and development of early Christian art from its classical and late classical antecedents and its development up to Byzantine art.
- G 1003 323
MEDIEVAL ART 3.0
Painting, sculpture and architecture in the Romanesque and Gothic periods.
- G 1003 324
NORTHERN RENAISSANCE PAINTING 3.0
Fifteenth and sixteenth century painting in northern Europe with particular attention to Flanders and Holland; emphasis on Jan Van Eyck, Van der Weyden, Bosch, Peter Bruegel and Matthias Gruenewald.
- G 1003 325
SEVENTEENTH AND EIGHTEENTH CENTURY ART 3.0
Painting, sculpture, and architecture in western Europe from 1600 to 1800. Baroque and Rococo styles with emphasis on El Greco, Bernini, Rubens, Rembrandt, Poussin and Watteau.
- G 1003 326
THE CRITICAL APPROACH 3.0
Historical criticism, criteria in art criticism, and an analysis of the critical process.
- G 1003 327
HISTORY OF ORIENTAL ART 3.0
The factors that shaped oriental society. The art of China, Korea, Japan, India, southeast Asia and the neighboring Islamic world.
- G 1003 328
SURVEY OF GREEN ART 3.0
Greek art including painting, sculpture and architecture from the Bronze Age through the Hellenistic period.
- G 1003 329
AMERICAN ART 3.0
Art in the United States from the colonial period through the nineteenth century; the development of an American style in the light of its relationship to and dependence upon European art.
- G 1003 331
MODERN ART 3.0
Movements, personalities and styles from the late nineteenth century masters to cubism, futurism, surrealism and other schools that shaped the modern movement. Lectures, readings, museum visits.
- G 1003 332
ANCIENT ART OF EUROPE 3.0
The non-classical traditions in prehistoric and early medieval Europe; the continuity of native, anticlassical artistic trends from the cave art of paleolithic Europe to the migration arts of the early Middle Ages; the arts of the builders of Stonehenge, the Scythians, Huns, Celts, Goths and Vikings.
Pre-requisite: Instructor's permission.
- G 1003 450
MODERN ARCHITECTURE 3.0
Major contributions to the development of modern architecture in the nineteenth and twentieth centuries; the development of styles, structural innovations and theories of design.
- G 1003 451
CONTEMPORARY ART 3.0
The work of major artists of the twentieth century with particular reference to the dominant ideas of the period; readings, museum trips, discussion of contemporary writing and criticism.
- G 1003 452
RENAISSANCE ART IN ITALY: THE SIXTEENTH CENTURY 3.0
The great masters of the Cinquecento: Leonardo, Michelangelo, Raphael, Giorgione and Titian; the emergence of mannerism art and in Rome, Venice, Florence and Bologna.
- G 1003 454
FIELD TRIPS IN ART HISTORY 3.0
An intensive three week tour of major centers of art in conjunction with specific courses in art history, e.g., field trips in the United States or abroad. Offered only during winter session.
- G 1003 455
SELECTED PROBLEMS IN ART HISTORY 3.0
A seminar in topics like the works of an individual artist or a particular theme in art history (e.g. the human figure) or a particular technique (e.g. sculpture). Lectures, reports, museum and studio visits, discussion.

- G 1003 456
MODERN PHILOSOPHIES OF ART 3.0
 The work of major writers about art in the nineteenth and twentieth centuries; the nature of the creative experience, the function of art in the life of the individual and of society, the nature of the creative process, the rise of new materials and institutions the development of sentiments and attitudes affecting thinking in the field.
- G 1003 457
PRE-COLUMBIAN, OCEANIC AND AFRICAN ART 3.0
 The major styles of Oceania, Africa, South and Central America before Columbus.
- G 1003 458
TRADITIONAL ARTS OF SUB-SAHARAN AFRICA 3.0
 The painting, sculpture and minor arts of the cultures of Africa; prehistoric remains and art traditions of the more recent past in the context of stylistic groupings, relation to ceremony and to daily life; symbolism and relations to the arts of other cultures.
- G 1003 459
ART OF THE NINETEENTH CENTURY 3.0
 The major movements of the nineteenth century: classicism, romanticism and realism; the salon at midcentury, impressionism, post-impressionism.
- G 1003 460
NINETEENTH CENTURY AMERICAN ARCHITECTURE 3.0
 Building in the United States during the nineteenth century; social, economic and political forces as determinants of architectural form; interior design and decoration. Works by Latrobe, A. J. Downing, Ithiel Towne, H. H. Richardson and Louis Sullivan emphasized.
- G 1003 461
NINETEENTH CENTURY AMERICAN PAINTING 3.0
 Painting in the United States during the nineteenth century: portrait, landscape and genre traditions; the Hudson River school, the genre painters, the expatriates and the independents; folk and naïf paintings. Some knowledge of European painting is desirable.
- G 1003 462
SENIOR SEMINAR 3.0
 Seminar in selected artistic problems of historic, social and philosophical nature.
Pre-requisite: Instructor's permission.
- G 1003 463
RESOURCES AND METHODS OF RESEARCH IN THE ARTS 3.0
 Bibliographic and other scholarly resources; the special problems of scholarship and research.
- G 1003 469
ART OF THE TWENTIETH CENTURY 3.0
 From Picasso to today; scientific and social forces transforming the artist's vision, including the theories of Freud and Bergson.
- G 1003 483
INDEPENDENT STUDY IN ART HISTORY 3.0
 May be repeated for credit.
Pre-requisite: Instructor's permission.
- G 1003 485
ANCIENT ART IN ITALY: ETRUSCAN AND ROMAN ART 3.0
 The arts of the Etruscans and Romans in their historical, cultural and religious settings.
- G 1003 487
AFRO-AMERICAN ART 3.0
 Afro-American art in the United States from colonial times to the present.
- G 1010 218
FILMMAKING I 3.0
 Basic elements of Super 8 film production: script, camera, lighting, sound, editing, animation.
- G 1010 219
FILMMAKING II 3.0
 Basic elements of 16 mm film production. Script, camera, lighting, sound, editing, animation.
Pre-requisite: G 1010 218 Instructor's permission.
- G 1010 221
TELEVISION AS AN ART FORM I 3.0
 Artistic statements are produced on tape and film.
Pre-requisite: Instructor's permission.
- G 1010 222
TELEVISION AS AN ART FORM II 3.0
 Continuation of G 1010 221.
Pre-requisite: G 1010 221 Instructor's permission.
- G 1010 299
HISTORY OF CINEMA AS ART 3.0
 The development of the motion picture as an art form from its earliest stage to the present; the technical, social, economic, cultural and esthetic factors. May be repeated once for credit.
- G 1010 332
FILM EDITING 3.0
 Principles and techniques of film editing; artistic and esthetic concepts; practice with standard editing equipment.
Pre-requisites: G 1010 219 Instructor's permission.
- G 1010 333
PRINCIPLES OF CINEMATOGRAPHY 3.0
 Exercises in the use of camera equipment and practice in composition, perspective, interpretive lighting and camera movement.
Pre-requisite: G 1010 219 Instructor's permission.
- G 1010 336
TELEVISION AS AN ART FORM III 3.0
 Continuation of G 1010 222.
Pre-requisite: G 1010 0222 Instructor's permission.
- G 1010 450
THE AVANT-GARDE CINEMA 3.0
 The avant-garde cinema from its 1920-30 European surrealist roots through the 1940's American school to present-day experimental, structural and personal films.
- G 1010 453
FILMMAKING III 3.0
 Continuation of 1010 219.
Pre-requisite: G 1010 219.
- G 1010 472
DOCUMENTARY FILM WORKSHOP 3.0
 Documentary film production; individual or group expression in making a non fictional film.
Pre-requisites: G 1010 219 Instructor's permission.
- G 1010 473
NARRATIVE FILM WORKSHOP 3.0
 Narrative film production; individual or group expression in making a fictional film.
Pre-requisites: G 1010 219 Instructor's permission.

- G 1010 474
TELEVISION AS AN ART FORM IV 3.0
Continuation of G 1010 336.
Pre-requisite: G 1010 336 Instructor's permission.
- G 1010 475
TELEVISION PROJECTS I 3.0
Problems of contemporary television production; student-faculty critique of the product as an art form.
- G 1010 476
TELEVISION PROJECTS II 3.0
Continuation of G 1010 475.
Pre-requisite: G 1010 475.
- G 1010 491
INDEPENDENT STUDY IN FILM I 3.0
Topics selected with the approval of the instructor.
- G 1010 492
INDEPENDENT STUDY IN FILM II 3.0
Topics selected with the approval of the instructor.
Pre-requisite: G 1010 491.
- G 1010 493
INDEPENDENT STUDY IN FILM III 3.0
Topics selected with the approval of the instructor.
Pre-requisite: G 1010 492.
- G 1010 494
INDEPENDENT STUDY IN FILM IV 3.0
Topics selected with the approval of the instructor.
Pre-requisite: G 1010 493.
- G 1010 499
FILMMAKING IV 3.0
Continuation of G 1010 453.
Pre-requisite: G 1010 453.
- G 1011 213
PHOTOGRAPHY I: A CONTEMPORARY ART FORM 3.0
The essentials of the photographic process including developing, enlarging, and exhibiting. Trips, films, discussion, lectures, criticism and demonstration.
- G 1011 214
INTERMEDIATE PHOTOGRAPHY: A CONTEMPORARY ART FORM 3.0
Continuation of G 1011 213.
Pre-requisite: G 1011 213.
- G 1011 250
PHOTOTRANSARENCY MATERIALS 4.0
Control and manipulation of color and monochrome transparency materials. Emphasis on visual awareness, personal direction, and technical skills.
Pre-requisite: G 1011 213 OR instructor's permission.
- G 1011 310
ADVANCED PHOTOGRAPHY: A CONTEMPORARY ART FORM 4.0
Workshop, discussion, lecture, demonstrations, criticism; photography as an intensive learning experience; light sensitive materials, controls, photographic approach, selection, system and view camera.
Pre-requisite: G 1011 214.
- G 1011 311
SPECIAL PROCESS IN PHOTOGRAPHY 4.0
Non-traditional light sensitive materials for use in the photographic image making process; extension of traditional boundaries of photography through new tools permitting greater image manipulation; gum bichromate, cyanotype, platinum, photo etching, and others.
Pre-requisite: G 1011 214.
- G 1011 410
THE COLOR PHOTOGRAPHIC PRINT: A CONTEMPORARY ESTHETIC APPROACH 4.0
Photographic and printing techniques for color; history of color photographic print. Museum and gallery visits.
Pre-requisite: G 1011 310 or instructor's permission.
- G 1011 425
INDEPENDENT STUDY IN PHOTOGRAPHY: A CONTEMPORARY ART FORM I 3.0
Topics for investigation selected with the approval of the instructor.
- G 1011 426
INDEPENDENT STUDY IN PHOTOGRAPHY: A CONTEMPORARY ART FORM II 3.0
Topics for investigation are selected with the approval of the instructor.
Pre-requisite: G 1011 425.
- G 1011 427
INDEPENDENT STUDY IN PHOTOGRAPHY: A CONTEMPORARY ART FORM III 3.0
Topics for investigation selected with the approval of the instructor.
Pre-requisite: G 1011 426.
- G 1011 428
INDEPENDENT STUDY IN PHOTOGRAPHY: A CONTEMPORARY ART FORM IV 3.0
Topics for investigation selected with the approval of the instructor.
Pre-requisite: G 1011 427.
- G 1011 450
COMMERCIAL PHOTOGRAPHY 4.0
Workshop and problem solving of commercial applications in photography; view camera to 35mm, color and black and white materials, studio lighting, photo illustration, photo essay, marketing, field trips. Visiting professionals.
Pre-requisite: G 1011 310 Majors only.
- G 1011 484
A HISTORY OF PHOTOGRAPHY 3.0
The roots of photography; its practitioners and the social and historical circumstances surrounding its creation.
- G 1090 200
SOFT SKINS I 3.0
Use of skins and hides to create items of artistic and/or functional value. Emphasis on the design and execution of works in one or all forms of leather and fur.
- G 1090 202
CERAMICS: POTTERY AND SCULPTURE I 3.0
Forming methods, clay composition, glazing and firing, the history of ceramics.
- G 1090 203
CERAMICS: POTTERY AND SCULPTURE II 3.0
Continuation of G 1090 202.
Pre-requisite: G 1090 202.

- G 1090 204
FIBERS AND FABRICS I 3.0
Techniques employed by fiber artists and the textile industry; on-loom and off-loom weaving; spinning and vegetable dyeing; and fabric and fiber techniques in contemporary work.
- G 1090 205
FIBERS AND FABRICS II 3.0
One or more areas of endeavor selected for exploration. Emphasizes research into the various techniques and mastery of the methods.
Pre-requisite: G 1090 204.
- G 1090 206
SOFT SKINS I 3.0
Continuation of G 1090 200.
Pre-requisite: G 1090 200.
- G 1090 207
SURFACE DESIGN I
Selected printing, dyeing and fabric manipulation techniques.
- G 1090 210
TEXTILE DESIGN I 3.0
Pattern rendering and putting designs into repeat for the textile industry.
- G 1090 218
METALWORK AND JEWELRY I 3.0
Introduction to metal working and jewelry techniques traditionally used in the shaping of useful articles.
- G 1090 219
METALWORK AND JEWELRY II 3.0
Advanced design concepts and metalworking techniques.
Pre-requisite: G 1090 218.
- G 1090 225
SURFACE DESIGN II 3.0
Continuation of G 1090 207.
Pre-requisite: G 1090 207.
- G 1090 301
CERAMICS: POTTERY AND SCULPTURE III 3.0
Continuation of 1090 203.
Pre-requisite: G 1090 203.
- G 1090 302
CERAMICS POTTERY AND SCULPTURE IV 3.0
Continuation of 1090 301.
Pre-requisite: G 1090 301.
- G 1090 304
FIBERS AND FABRICS III 3.0
Further exploration of a technique or techniques selected by the student. A research paper on the historical implications of a technique and a final project are required.
Pre-requisite: G 1090 205.
- G 1090 305
FIBERS AND FABRICS IV 3.0
Exploration of area or areas of textile techniques selected by the student. An exhibit of work done during the semester is to be planned and hung by the student.
Pre-requisite: G 1090 304.
- G 1090 310
SOFT SKINS III 3.0
Continuation of G 1090 206.
Pre-requisite: G 1090 206.
- G 1090 320
SURFACE DESIGN III 3.0
Continuation of G 1090 225.
Pre-requisite: G 1090 225.
- G 1090 325
SURFACE DESIGN IV 3.0
Continuation of 1090 320.
Pre-requisite: G 1090 320.
- G 1090 335
METALWORK AND JEWELRY III 3.0
Traditional techniques advanced design concepts and techniques.
Pre-requisite: G 1090 219.
- G 1090 350
CERAMICS: POTTERY AND SCULPTURE V
Continuation of G 1090 302.
- G 1090 400
TEXTILE TRADITIONS 3.0
Study of the unchanged textile traditions of both the East and West and their relations to the contemporary fiber experience.
- G 1090 401
HISTORY OF TEXTILES 3.0
The evolution of textile equipment and techniques from primitive cultures to the contemporary era.
- G 1090 407
FIBER SOURCES FIELD TRIPS 3.0
Weekly field trips to museums and galleries, artists, studios and textile companies in New York and New Jersey.
Pre-requisite: G 1090 204.
- G 1090 412
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE I 3.0
Topics for investigation selected with the approval of the instructor.
- G 1090 413
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE II 3.0
Topics for investigation selected with the approval of the instructor.
Pre-requisite: G 1090 412.
- G 1090 414
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE III 3.0
Topics for investigation selected with the approval of the instructor.
Pre-requisite: G 1090 413.
- G 1090 415
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE IV 3.0
Topics for investigation are selected with the approval of the instructor.
Pre-requisite: G 1090 414.
- G 1090 416
INDEPENDENT STUDY I: TEXTILES 3.0
Topics for investigation selected with the approval of the instructor.

- G 1090 417
INDEPENDENT STUDY II: TEXTILES 3.0
Topics for investigation are selected with the approval of the instructor.
Pre-requisite: G 1090 416.
- G 1090 418
INDEPENDENT STUDY III: TEXTILES 3.0
Topics for investigation are selected with the approval of the instructor.
Pre-requisite: G 1090 417.
- G 1090 419
INDEPENDENT STUDY IV: TEXTILES 3.0
Topics for investigation are selected with the approval of the instructor.
Pre-requisite: G 1090 418.
- G 1090 420
SURFACE DESIGN V 3.0
Continuation of G 1090 325.
Pre-requisite: G 1090 325.
- G 1090 425
SURFACE DESIGN VI 3.0
Advanced studies in printing, dyeing and manipulation of fabric techniques.
Pre-requisite: G 1090 420.
- G 1090 436
METALWORK AND JEWELRY IV 3.0
Continuation of G 1090 335.
Pre-requisite: G 1090 335.
- G 1090 437
INDEPENDENT STUDY: METALWORK AND JEWELRY I 3.0
Topics for investigation selected with the approval of the instructor.
- G 1090 438
INDEPENDENT STUDY IN METALWORK AND JEWELRY II 3.0
Topics for investigation selected with the approval of the instructor.
Pre-requisite: G 1090 437.
- G 1090 439
INDEPENDENT STUDY IN METALWORK AND JEWELRY III 3.0
Topics for investigation selected with the approval of the instructor.
Pre-requisite: G 1090 438.
- G 1090 440
INDEPENDENT STUDY IN METALWORK AND JEWELRY IV 3.0
Topics for investigation selected with the approval of the instructor.
Pre-requisite: G 1090 439.
- G 1090 441
FIBERS AND FABRICS V 3.0
Continuation of G 1090 305.
Pre-requisite: G 1090 305.
- G 1090 442
FIBERS AND FABRICS VI 3.0
Continuation of comprehensive studies in progress through fibers and fabrics I-V.
Pre-requisite: G 1090 441.
- G 1090 450
APPLIED TEXTILE DESIGN 3.0
Designing for the power loom with emphasis on the Jacquard process.
Pre-requisites: G 1090 305 Instructor's permission. G 1090 305 Instructor's permission.
- G 1090 480
CERAMICS: POTTERY AND SCULPTURE VI
Continuation of G 1090 350.
- G 1090 496
SOFT SKINS IV 3.0
A continuation of the study of skins, hides and fur as creative materials. Emphasis is placed on the use of the basic skills learned in the preceding courses.
Pre-requisites: G 1090 310.
- G 1091 330
MUSEUM PRACTICE 3.0
A study of museum techniques, much of it at museums in the metropolitan area with the participation of their staffs. Field trips and, if possible, brief apprenticeships.
- G 1091 489
EXHIBITION WORKSHOP I 3.0
Exhibition techniques and procedures; mounting of shows on campus.
- G 1091 490
EXHIBITION WORKSHOP II 3.0
Continuation of G 1091 489.
Pre-requisite: G 1091 489.
- G 1099 450
INTRODUCTION TO PERFORMING ARTS MANAGEMENT I 3.0
Structures of performing arts organizations in the U.S.
Pre-requisite: 9 s.h. in arts appreciation or applied work. Permission of instructor or department.
- G 1099 451
INTRODUCTION TO PERFORMING ARTS MANAGEMENT II 3.0
Problems and theories of arts management for performing groups in the U.S. marketing, production, fund-raising and other aspects of operation.
Pre-requisite: Intro. to Performing Arts Management I or permission of instructor.
- G 1099 460
INTERNSHIP IN PERFORMING ARTS MANAGEMENT I 4.0
Field work, 2 days per week (or the equivalent) in a professional situation. On-the-job training in day-to-day operations of a performing arts organization. Students will participate in all facets of production, observe decision-making activities. Registrants must drive and provide own transportation.
Pre-requisite: Intro. to Perf. Arts Management I, II, permission of sponsor, permission of dept. chairperson, 1 sem. of psychology.
- G 1099 461
INTERNSHIP IN PERFORMING ARTS MANAGEMENT II 4.0
Continuation of Internship in Performing Arts Management I 2 days per week or equivalent in field work with an arts organization devoted to performance. Registrants must drive and provide own transportation.
Pre-requisite: Internship I, permission of sponsor, permission of dept.

G 1099 462
**INTERNSHIP IN PERFORMING ARTS
 MANAGEMENT III** 1.0
 Full semester's internship in a performing arts organization with time allocation mutually decided by the sponsor and the student's major department. Interns must be able to drive and to provide own transportation.
Pre-requisite: Internships in Perf. Arts Management I, II, permission of sponsor, permission of major department.

G 1099 470
**EXTERNSHIP IN PERFORMING ARTS
 MANAGEMENT** 1.0
 Management of an arts organization arranged in cooperation with the major department and umbrella organizations. Credit to be arranged.
Pre-requisite: Intro. to Perf. Arts Management I, II, two semesters of internship, permission of sponsor(s) and major department.

G 4921 120
INTRODUCTION TO PRINTMAKING 3.0
 Woodcut, screen printing and monoprints; etching, drypoint and lithography. Exploration of new and advanced techniques.

G 4921 200
**INTRODUCTION TO INTAGLIO AND RELIEF
 PRINTING** 3.0
 Drypoint, engraving, etching and major techniques like line and open bite, soft ground, stop out procedure, lift ground, mezzotint and aquatint.

G 4921 201
INTRODUCTION TO SCREEN PRINTING 3.0
 Screen printing including misfit, tusche, glue, lacquer and stencil and photographic techniques.

G 4921 202
INTRODUCTION TO LITHOGRAPHY 3.0
 Chemicals, tools, materials and techniques of the process.

G 4921 334
MULTI-MEDIA PUBLICATION 3.0
 Production of a publication appealing to the auditory, tactile and olfactory senses and using three-dimensional materials as well as conventional two-dimensional pages; the artist's role in preparing for mass production.
Pre-requisite: Instructor's permission.

G 4921 363
ADVANCED PRINTMAKING I 3.0
 Consideration of printmaking media. Particular attention to the growth and development of art-making concepts as they relate to the printmaking processes.

G 4921 364
ADVANCED PRINTMAKING II 3.0
 Continuation of G 4921 363.
Pre-requisite: G 4921 363.

G 4921 400
ADVANCED PRINTMAKING III 3.0
 Continuation of G 4921 364.
Pre-requisite: G 4921 364.

G 4921 401
ADVANCED PRINTMAKING IV 3.0
 Continuation of G 4921 400.
Pre-requisite: G 4921 400.

G 4921 431
INDEPENDENT STUDY: PRINTMAKING I 3.0
 Topics for investigation selected with approval of instructor.

G 4921 432
INDEPENDENT STUDY: PRINTMAKING II 3.0
 Topics for investigation selected with approval of instructor.
Pre-requisite: G 4921 431.

G 4921 433
INDEPENDENT STUDY: PRINTMAKING III 3.0
 Topic for investigation selected with approval of instructor.
Pre-requisite: G 4921 432.

G 4921 434
INDEPENDENT STUDY: PRINTMAKING IV 3.0
 Topic for investigation are selected with approval of instructor.
Pre-requisite: G 4921 433.

G 4921 464
THE ART AND HISTORY OF THE PRINT 2.0
 The principal types of prints from their beginnings to today. For both majors and students in other fields.

G 4921 470
INDEPENDENT STUDY IN MULTI-IMAGE MEDIA 4.0
 Use of media for presentation, exhibition or publication. Topics selected with the approval of the instructor.

G 4922 223
SHELTER FORM AS ART I 3.0
 The concepts and forms of shelter; the ways in which men and animals have housed themselves from primitive times to the present; interior spatial qualities and utilization and the role of adornment, decoration and exterior configurations. Projects include model making.

G 4922 224
SHELTER FORM AS ART II 3.0
 Problems of shelter form and space dealt with through workshop. Basic building construction. Full-scale models of environmental solutions will be built. Projects include domes, inflated buildings, shelter sections and sensory spaces.
Pre-requisite: G 4922 223.

G 4922 235
RITUAL EVENT AND PERFORMANCE I 3.0
 Exploration of how man's universal and long standing impulses are made into coherent ritual events or performances; the total art act which employs time, space and the group creative process.

G 4922 337
EXPLORATIONS IN CONTEMPORARY USES OF ART 3.0
 Art as a functional part of the contemporary community; reactions between people and the city environment; the visual potential of science and technology and its application to problems of visual form in relation to architectural and urban environment.

G 4922 338
SHELTER FORM AS ART III 3.0
 Continuation of G 4922 224.
Pre-requisite: G 4922 224.

G 4922 340
**SELECTED PROBLEMS IN URBAN CULTURAL
 DEVELOPMENT** 3.0
 Consideration of a specific problem relating to creating a sensuously exciting and stimulating city and community form.

G 4922 341
HISTORY OF CITY FORM 3.0
 Conceptual and esthetic planning of city form from primitive village patterns and the ancient towns of India and Egypt to schemes for the future; the significance of squares and public spaces; the question of scale and the ways in which forms and spaces are experienced.

G 4922 351
COMMUNITY FORM AS ART I 3.0
 A studio in contemporary design. The elements of form and space including natural configurations, building shapes and scale, paths of movement, city furnishings and visuals, recreational areas. Field trips and projects.

G 4922 352
COMMUNITY FORM AS ART II 3.0
 Continuation of G 4922 351.
Pre-requisite: G 4922 351.

G 4922 400
DESIGNING LEARNING ENVIRONMENT 3.0
 The role of the physical environment as the medium of learning experience; the methods and materials of making places that stimulate, focus and respond to the learning needs of people; Designing and building projects for school, classroom and community.

G 4922 477
SHELTER FORM AS ART IV 3.0
 Continuation of G 4922 338.
Pre-requisite: G 4922 338.

G 4922 478
ART IN PUBLIC PLACES 3.0
 A studio concerned with urban areas defined by man's art and used by the public; problems of using art work to achieve the desired ambience. Especially recommended for students of painting, sculpture, theater, music, dance.

G 4922 479
INDEPENDENT INVESTIGATION IN URBAN CULTURAL DEVELOPMENT 2-8.0
 Topics for investigation selected with the approval of the instructor.

G 4922 480
URBAN ARTS PROGRAM PLANNING 3.0
 Work at an arts institution in a major city observing the institution's program. Participants in the course prepare a ten year development plan for an institution emphasizing city and institutional relations. Formal defense of the plan is required.

G 4922 481
COMMUNITY FORM AS ART III 3.0
 Continuation of G 4922 352.
Pre-requisite: G 4922 352.

G 4922 482
COMMUNITY FORM AS ART IV 3.0
 Continuation of G 4922 481.
Pre-requisite: G 4922 481.

G 4922 485
RITUAL EVENT AND PERFORMANCE II 3.0
 Advanced research projects and productions in designing rituals, events and performances; and the ability to articulate understandings and concepts both in the written and spoken word. May be repeated for credit.
Pre-requisite: G 4922 235.

G 4922 490
ART IN THE COMMUNITY 3.0
 From a community based classroom, work is done on specific problems in cultural development. Emphasis on the immediate locality and on questions of integration and communication with the residents and the evolution of a relevant community esthetic.
Pre-requisite: G 4922 351, Instructor's permission.

French

Chairperson: Helene Klibbe

With an emphasis on scholarship, the department of French provides courses that develop linguistic skill, literary appreciation and an understanding of the French people and their culture.

French majors may choose the translation-interpretation concentration to enhance their linguistics skills or to enter careers related to international organizations. Those who intend to continue beyond the Bachelor of Arts degree are advised to become proficient in at least one other language.

There is a study abroad program which allows the student to spend a year in a French speaking country. For information about it call the department.

An 18 sh minor and a 24 sh second teaching field are also available.

Students who wish to begin French in college should register for Beginning French I.

Students who wish to continue their study of French in college and had two years of high school French should register for Beginning French II.

French Major

Required Courses (Liberal Arts)

	Semester Hours
1102 150, 151 French Stylistics and Composition I, II.....	3 ea.
1102 155 French Phonetics	2
1102 250 Advanced Composition	2
1102 220 Explication de Texte	3
1102-201 17th Century French Literature (Prerequisite 0 1102 220).....	3
1102 210 18th Century French Literature (Prerequisite 0 1102 220).....	3
1102 301 19th Century French Literature (Prerequisite 0 1102 220).....	3
1102 310 20th Century French Literature (Prerequisite 0 1102 220).....	3
1102 360 French Perspectives.....	3

Electives (Major)

Select 8 sh from the appropriate list to be obtained
from the department.....8

Teacher Education

1102 150, 151	French Stylistics and Composition I, II	3 ea.
1102 155	French Phonetics	2
1102 250	Advanced Composition	2
1102 220	Explication de Texte	3
1102 310	20th Century French Literature (Prerequisite: 0 1102 220)	3
1102 360	French Perspectives	3
1102 410	Advanced French Grammar	3
Select two		
1102 201	17th Century French Literature (Prerequisite: 0 1102 220)	3
1102 210	18th Century French Literature (Prerequisite: 0 1102 220)	3
1102 301	19th Century French Literature (Prerequisite: 0 1102 220)	3

Electives (Major)

Select 8 sh from the appropriate list to be obtained
from the department.....8

1508 210 Introduction to General Linguistics3
(Recommended for all French majors.)

Concentration Programs Within the Major

TRANSLATION**Required Courses**

	Semester Hours
1102 150, 151 French Stylistics and Composition I, II	3 ea.
1102 155 French Phonetics	2
1102 160 French Civilization: 19th and 20th Centuries.....	3
1102 220 Explication de Texte	3
1102 250 Advanced Composition	2
1102 310 20th Century French Literature.....	3
1102 350 Translation I.....	3
1102 351 Translation II	3
1102 360 French Perspectives.....	3
1102 365 Introduction to Consecutive and Simultaneous Interpreting <i>or</i>	3
1102 452 Translation III.....	3
1102 410 Advanced French Grammar	3

Electives (Major)

Select 6 sh from the appropriate list to be obtained
from the department.....6

French Minor**Required Courses (Liberal Arts Emphasis)**

1102 150, 151	French Stylistics and Composition I, II	3 ea.
1102 155	French Phonetics	2
1102 220	Explication De Texte.....	3

Electives (Major)

French Literature and Civilization.....7

Required Courses (Business Emphasis)**Semester Hours**

1102 121, 132	Intermediate French I, II	3 ea.
1102 150, 151	French Stylistics of Composition I, II.....	3 ea.
1102 135	Commercial French	3
1102 165	Spoken Language Practice.....	3
1102 265	Advanced Spoken Language Practice	3
1102 360	French Perspectives.....	3

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching. In addition French majors must have a "B" average in French and take the Teacher Education courses under the French Major Requirements.

Second Teaching Field in French

Required Courses

1102 150, 151	French Stylistics and Composition I, II	3 ea.
1102 155	French Phonetics	2
1102 220	Explication de Texte	3
1102 250	Advanced Composition	2
1102 165	Spoken Language Practice.....	3
1102 410	Advanced French Grammar	3

Electives

Select 6 sh from the appropriate list to be obtained
from the department.....6

Courses of Instruction

O 1102 100
FRENCH READING COURSE3.0
Learning to read French as a tool for research (a service course for MA candidates in English; successful completion of this course will satisfy the language requirement).

O 1102 101
BEGINNING FRENCH I3.0
For students starting French in college. Fundamental training in the speaking, reading and writing of simple, French. Laboratory work available.

- O 1102 112
BEGINNING FRENCH II 3.0
For students starting French in college. Fundamental training in the speaking, reading and writing of simple French. Lab work available.
Pre-requisite: O 1102 101 or equivalent.
- O 1102 120
INTENSIVE ELEMENTARY FRENCH 3.0
An intensive course covering the beginning French program. Laboratory work available.
- O 1102 121
INTERMEDIATE FRENCH I 3.0
Developing of listening, reading and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available.
Pre-requisite: O 1102 112 or equivalent.
- O 1102 132
INTERMEDIATE FRENCH II 3.0
Developing of listening, reading, and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available.
Pre-requisites: O 1102 121 or equivalent.
- O 1102 135
COMMERCIAL FRENCH 3.0
A two-semester sequential course, conducted entirely in French, emphasizing the development of the specialized language skills of commercial French, through the study of the French economy-commercial professions and enterprises.
Pre-requisites: O 1102 151 or equivalent.
- O 1102 150
FRENCH STYLISTICS AND COMP I 3.0
Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program.
Pre-requisites: O 1102 132 or equivalent
- O 1102 151
FRENCH STYLISTICS AND COMP II 3.0
Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program.
Pre-requisites: O 1102 150.
- O 1102 155
FRENCH PHONETICS 2.0
Weekly transcriptions, problems on articulation, rhythm, accentuation and intonation intensive language laboratory work.
- O 1102 160
FRENCH CIVIL: 19th AND 20th CENTURIES 3.0
Various aspects of the material, intellectual, artistic, and spiritual life of France.
- O 1102 165
SPOKEN LANGUAGE PRACTICE 3.0
Intensive conversation with organized discussions on subjects of special interest.
- O 1102 201
SEVENTEENTH CENTURY FRENCH LITERATURE 3.0
The most representative authors of the century.
- O 1102 202
SEVENTEENTH CENTURY FRENCH THEATER 2.0
Plays of Corneille, Racine and Moliere.
- O 1102 210
EIGHTEENTH CENTURY FRENCH LITERATURE 3.0
Main writings of the age of enlightenment.
- O 1102 211
EIGHTEENTH CENTURY THEATER 2.0
Comedy, tragedy and the origin of the drama.
- O 1102 220
EXPLICATION DE TEXTE 3.0
Improvement of reading skills and literary perception through the technique of the Explication de Texte, using examples from a wide variety of periods and genres.
Pre-requisite: O 1102 151.
- O 1102 230
FRENCH FILM 3.0
Development of film art with special emphasis on the contemporary period.
- O 1102 250
ADVANCED COMPOSITION 2.0
A review of advanced grammar through intensive written and oral practice.
- O 1102 251
ADVANCED SYNTAX 2.0
Advanced French Syntactical theory.
- O 1102 260
ORIGINS OF FRENCH CIVILIZATION 3.0
French history and cultural development from the Middle Ages to the Revolution.
- O 1102 261
MUSIC IN FRENCH CIVILIZATION 3.0
Composers from the Middle Ages (Perotin) to modern times (Boulez) their social and cultural backgrounds.
- O 1102 265
ADVANCED SPOKEN LANGUAGE PRACTICE 3.0
Intensive conversation on an advanced level on selected and varied topics.
- O 1102 301
NINETEENTH CENTURY FRENCH LITERATURE 3.0
Principal literary currents from romanticism to symbolism.
- O 1102 310
TWENTIETH CENTURY FRENCH LITERATURE 3.0
Representative works of contemporary theater and the novel.
- O 1102 311
CONTEMPORARY FRENCH DRAMA 2.0
Theatre from the beginning of the century to the present.
- O 1102 315
DADA AND SURREALISM 2.0
The dada and surrealist movements their influence on twentieth century life.
- O 1102 330
SURVEY OF MEDIEVAL LITERATURE 3.0
Development of the principal genres: Chanson de Geste, courtly romance, drama and poetry.
- O 1102 335
THE FRENCH RENAISSANCE 3.0
Selected works of Rabelais, Montaigne and the poets of the pleiade.

O 1102 340
SURVEY OF FRENCH POETRY 2.0
 Development of principal poetic movements with emphasis on the 19th and 20th centuries.

O 1102 345
DEVELOPMENT OF FRENCH NOVEL TO 1900 3.0
 Evolution of fiction from the feminist writings of Mme. de la Fayette and Diderot's literature of social involvement to the present.

O 1102 349
FRANCOPHONE LITERATURE 3.0
 Literature of French expression outside continental France.

O 1102 350
TRANSLATION I 3.0
 Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.

O 1102 351
TRANSLATION II 3.0
 Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.
Pre-requisites: O 1102 350.

O 1102 360
FRENCH PERSPECTIVES 3.0
 A French viewpoint on contemporary problems emphasizing interrelationships of political, social and economic fields.

O 1102 365
INTRODUCTION TO CONSECUTIVE AND SIMULTANEOUS INTERPRETING 3.0
 The field of cross-cultural communications (with emphasis on the French-speaking world) and practice in the techniques of simultaneous and consecutive interpreting, French-English, English-French.
Pre-requisites: O 1102 350, O 1102 351.

O 1102 375
FRENCH STUDY ABROAD Credit by evaluation
 Study at a university in a French speaking country to gain first-hand knowledge of the historical, social, economic, and cultural life of the country. Permission of the department chairman.

O 1102 410
ADVANCED FRENCH GRAMMAR 3.0
 A review of the most important structural features of French, with special emphasis on areas of interference with English structure.

O 1102 419
THE TEACHING OF FRENCH IN SECONDARY SCHOOLS 3.0
 Lesson planning evaluation of techniques demonstration of teaching procedures, teaching aids, exploration of direct method and audio-lingual approaches.

O 1102 452
TRANSLATION III 3.0
 Translation of articles in specific fields of interest to improve translation skills.
Pre-requisites: O 1102 350, O 1102 351.

O 1102 467, O 1102 468, O 1102 469, O 1102 470
SEMINARS 3.0
 Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

O 1102 472
FRENCH LANGUAGE WORKSHOP 2.0
 A thorough foundation in French at the level required for successful graduate studies.

O 1102 478
INDEPENDENT STUDY 1-3.0
 Directed independent study and research in French language and literature.

O 4903 155
INTRODUCTION TO FRENCH LITERATURE MIDDLE AGES TO 18TH CENTURY 3.0
 Study of major works and literary social movements of that period. Taught in English.

O 4903 156
INTRODUCTION TO FRENCH LITERATURE 19TH AND 20TH CENTURIES 3.0
 Study of major works and trends of that period. Taught in English.

O 4903 186
MYTHS AND IMAGES OF WOMEN IN FRENCH LITERATURE 3.0
 Literary treatments of female characters in representative works from the middle ages to the present. Taught in English.

O 4903 245
NAPOLEONIC WARS FACT AND FICTION 3.0
 The historical novel as a genre the relation of fiction to fact.

O 4903 250
FRENCH PERSPECTIVES 3.0
 Interplay of contemporary political, economic, social and artistic events in France and the U.S. Taught in English.

O 4903 260
MAJOR CURRENTS OF MODERN THOUGHT IN FRENCH LITERATURE 3.0
 Study of the dominant social, theological and aesthetic movements in French literature through selected works of prose and drama from the beginning of the century to the present. Taught in English.

O 4903 265
MODERN FRENCH THEATER 3.0
 Study of the most significant plays of Claudel, Montherlant, Giraudoux, Sartre and Beckett and others. Taught in English.

O 4903 275
THE WRITER'S CRAFT IN FRENCH LITERATURE 3.0
 Imagery in selected works of French prose and drama, as stylistic means for the expression of an author's dominant ideas and attitudes. Taught in English.

O 4903 286
FRENCH FILM 3.0
 Development of film art with special emphasis on contemporary period. Taught in English.

O 4903 287
MODERN FRENCH FICTION 3.0
 Major novelistic modes from the writer-artist conceptions of Gide, through the committed literature of Sartre and Camus, to Robbe-Grillet's new novel of the 50's.

O 4903 288
MUSIC IN FRENCH CIVILIZATION 3.0
 Composers from the middle ages (Perotin) to modern times (Boulez) in relation to their social and cultural backgrounds.

O 4903 386
DEVELOPMENT OF FRENCH NOVEL TO 1900 3.0
 Evolution of fiction from the feminist writings of Mme. De La Fayette and Diderot's literature of social involvement to the present. Taught in English.

O 4903 390
CONTEMPORARY FRENCH LITERATURE 3.0
 Contemporary trends in French writing as revealed in selected works from various genres.

German and Russian

Chairperson: John V. Moore

A command of the German or Russian language with an understanding of the respective literature and culture are the objects of the courses offered by the department. The German program offers a liberal arts major, a teacher education major plus a second teaching field and a liberal arts minor. The Russian program offers a liberal arts minor and a second teaching field, as well as required courses for The Russian Area Studies minor.

Because it is important to learn to speak a language in the native setting, German majors are encouraged to study in a German-speaking country. With departmental approval, academic credit can be given for this experience.

German Major

Required Courses

	Semester Hours
1103 141 Review of Fundamental Grammar.....	3
1103 151, 152 Advanced German I, II.....	3 ea.
1103 251, 252 Introduction to Literature I, II.....	3 ea.
1103 351, 352 German Civilization I, II.....	3 ea.

Electives (Major)

Select 12 sh from the appropriate list to be obtained from the department.....12

German Minor

Required Courses

	Semester Hours
1103 141 Review of Fundamental Grammar.....	3
1103 151, 152 Advanced German I, II.....	3 ea.

Electives (Departmental)

Select 9 sh from the appropriate list to be obtained from the department.....9

Russian Minor*

Required Courses

1106 101 and 112 Beginning Russian I, II.....	6
1106 121 and 132 Intermediate Russian I, II.....	6
1106 141 and 152 Advanced Russian I, II.....	6

Russian Area Studies Minor

Required Courses

1106 101, 112 Beginning Russian I, II.....	6
Soviet History or Political Science (see department entries)	6

Electives (Departmental)

Select 6 sh from the appropriate list to be obtained from the department.....6

Electives (Interdepartmental)

The Russian Area Studies Minor is interdisciplinary, and appropriate elective courses may be selected from the Departments of History, Political Science, Geography, and Economics, as well as from offerings in Russian language, literature and civilization, with permission of the program coordinator.

*Other courses may be selected under certain circumstances with departmental approval.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching. The following are the departmental course requirements for the program:

	Semester Hours
1505 210 Introduction to General Linguistics	3
1103 410 German Grammar: Applied Linguistics.....	3
1103 419 Teaching German in Secondary Schools.....	3

Electives (Not required but recommended)

1103 142 Practice in Written German	3
1103 209 Phonetics and Phonology.....	3

Second Teaching Field in German

1103 141 Review of Fundamental Grammar.....	3
1103 151, 152 Advanced German I, II.....	3 ea.
1103 251, 252 Introduction to German Literature I, II	3 ea.

3 additional courses in German (1103) beyond intermediate level9

Second Teaching Field in Russian*

1106 101 and 112 Beginning Russian I, II6
 1106 121 and 132 Intermediate Russian I, II6
 1106 141 and 152 Advanced Russian I, II6
 4903 293 Russian Culture and Civilization3
 4903 294 Russian Prose and Drama3

*Under certain circumstances and with permission of the Department Chairman, other selected courses may be counted.

Courses of Instruction

O 1103 101
BEGINNING GERMAN I (SPEAKING) 3.0
 For students without previous instruction in German. Emphasis on speaking, with practice in reading and writing simple German. Laboratory work optional.

O 1103 103
BEGINNING GERMAN I (READING) 3.0
 For students without previous instruction in German. Emphasis on acquiring a reading knowledge of the language. Suggested as preparation for graduate school language requirements or for careers in which reading knowledge of German is needed.

O 1103 110
BUSINESS GERMAN 3.0
 The student will gain a basic insight into the culture, society and language of commerce and industry of the German-speaking countries. Includes study of the foreign cultural environment together with essential linguistic background. No prior knowledge of German required.

O 1103 112
BEGINNING GERMAN II (SPEAKING) 3.0
 Emphasis on speaking, with practice in reading and writing simple German. Laboratory work optional.
Pre-requisite: O 1103 101 or equivalent.

O 1103 114
BEGINNING GERMAN II (READING) 3.0
 Emphasis on acquiring a reading knowledge of the language. Suggested as preparation for graduate school language requirements or for careers in which reading knowledge of German is needed.
Pre-requisite: O 1103 103 or equivalent.

O 1103 121
INTERMEDIATE GERMAN I (SPEAKING) 3.0
 Continuation of German 101 and 112. Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work optional.
Pre-requisite: O 1103 112 or equivalent.

O 1103 123
INTERMEDIATE GERMAN I (READING) 3.0
 Continuation of German 103 and 114. Open to students who have acquired an elementary reading knowledge of German elsewhere. More difficult German reading in various fields.
Pre-requisite: O 1103 114 or equivalent.

O 1103 132
INTERMEDIATE GERMAN II (SPEAKING) 3.0
 Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work optional.
Pre-requisite: O 1103 121 or equivalent.

O 1103 134
INTERMEDIATE GERMAN II (READING) 3.0
 Open to students who have acquired an elementary reading knowledge of German elsewhere. More difficult German reading in various fields.
Pre-requisite: O 1103 123 or equivalent.

O 1103 141
REVIEW OF FUNDAMENTAL GRAMMAR 3.0
 Oral and written practice for better control of language structure. Required for freshman majors, who are given admission preference.
Pre-requisites: O 1103 132, O 1103 134 or equivalent.

O 1103 142
PRACTICE IN WRITTEN GERMAN 3.0
 Increasingly difficult written assignments to develop command of idiomatic German. Strongly recommended for majors desiring teacher certification.
Pre-requisites: O 1103 141.

O 1103 151
ADVANCED GERMAN I 3.0
 Continuation of Intermediate German on a more advanced level. Students must follow class instruction in German, speak and write simple idiomatic German and read and discuss increasingly difficult assignments in literary German, particularly in the second semester. Required for freshman majors, who are given admission preference.
Pre-requisites: O 1103 132, O 1103 134 or equivalent.

O 1103 152
ADVANCED GERMAN II 3.0
 Students must follow class instruction in German, speak and write simple idiomatic German and read and discuss increasingly difficult assignments in literary German, particularly in the second semester. Required for freshman majors, who are given admission preference.
Pre-requisite: O 1103 151.

O 1103 209
PHONETICS AND PHONOLOGY 3.0
 Application of phonetic science to the acquiring and teaching of good pronunciation; the international phonetic alphabet problems of articulation; rhythm, accentuation and intonation. Strongly recommended for majors desiring teacher certification.

O 1103 251
INTRODUCTION TO LITERATURE I 3.0
 Standard works of German literature from the classical period to the present; methods of literary interpretation developmental approach to the principal epochs of German literature. Required of sophomore majors, who are given preference.

- O 1103 252
INTRODUCTION TO LITERATURE II 3.0
Standard works of German literature from the classical period to the present; methods of literary interpretation developmental approach to the principal epochs of German literature. Required of sophomore majors, who are given admission preference.
Pre-requisite: O 1103 251.
- O 1103 309
PRACTICE IN SPOKEN GERMAN 3.0
Intensive conversation practice to improve fluency and increase active vocabulary.
- O 1103 310
ADVANCED COMPOSITION 3.0
Intensive written exercises to improve command of the German language; some oral work.
- O 1103 315
TRANSLATION I 3.0
Intensive practice in the skills of translating professional texts from German into English and from English into German.
Pre-requisite: Instructor's permission.
- O 1103 316
TRANSLATION II 3.0
Continuation of 315 with more intensive exposure to the skills of translation. Recommended for qualified students interested in a possible future career as bilingual secretary, translator of commercial texts, etc.
Pre-requisite: O 1103 315 Instructor's permission.
- O 1103 320
DEVELOPMENT OF THE GERMAN LANGUAGE 3.0
Background, growth, and structure of the German language from the Indo-European and Germanic beginnings to the language as spoken today; historical explanation of modern German grammar.
- O 1103 341
GERMAN LITERATURE FROM THE ORIGINS TO THE REFORMATION 3.0
Works representative of the Old High German, Middle High German, and late medieval periods read in modern German version. The most important genres and trends, ending with excerpts from Luther's works.
- O 1103 342
GERMAN LITERATURE FROM THE 16th TO THE 18th CENTURIES 3.0
Representative works illustrating the trends preceding the classical period.
- O 1103 351
GERMAN CIVILIZATION I 3.0
Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary problems of divided Germany; re-unification, the respective political and educational systems and cultural trends. Required of junior majors, who are given admission preference.
- O 1103 352
GERMAN CIVILIZATION II 3.0
Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary problems of divided Germany; re-unification, the respective political and educational systems and cultural trends. Required of junior majors, who are given admission preference.
Pre-requisite: O 1103 351.
- O 1103 360
MODERN GERMAN PROSE FICTION 3.0
Reading and discussion of great German novels and novellas of the 19th and 20th centuries; the personal and stylistic characteristics of the authors; the literary periods they represent.
- O 1103 362
DEVELOPMENT OF GERMAN POETRY 3.0
The poetical movements, authors and genres since 1600; the evolution of forms, such as the sonnet and the ode; analysis and interpretation of poetry.
- O 1103 364
GERMAN DRAMA OF THE 19th AND 20th CENTURIES 3.0
Reading and discussion of outstanding plays and dramatists from Goethe's death to the present; interpretation and theories of dramas.
- O 1103 375
STUDY ABROAD 3.0
An opportunity to gain first-hand knowledge of the historical, social, economic and cultural life of German-speaking Europe. Semester hours will be granted by evaluation.
- O 1103 380
INDEPENDENT STUDY IN GERMAN (JUNIOR LEVEL) 3.0
Directed individual study and research in German for junior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest.
- O 1103 381
INDEPENDENT STUDY IN GERMAN (JUNIOR LEVEL) 3.0
Directed individual study and research in German for junior majors with the desire, ability, and responsibility necessary to pursue a special scholarly interest.
- O 1103 410
GERMAN GRAMMAR: APPLIED LINGUISTICS 3.0
A review of the most important structural features of German; areas of interference with English structure which present the greatest difficulties to the American student of German. Required for majors desiring teacher certification.
- O 1103 419
TEACHING GERMAN IN SECONDARY SCHOOLS 3.0
The aims, objectives and methods used in teaching German in secondary schools; textbooks, supplementary teaching materials, language laboratory, tests, etc. Required for majors desiring teacher certification.
- O 1103 441
THE AGE OF GOETHE 3.0
The life and works of Goethe; his continuing importance; reading from all important genres in which Goethe wrote.
- O 1103 442
THE AGE OF SCHILLER 3.0
The life and works of Schiller; his continuing importance; reading from the dramas, essays and poems.
- O 1103 460
SENIOR SEMINAR 3.0
Study in depth of significant figures not adequately treated elsewhere in the departmental offerings (Holderlin, Kleist, etc.) or detailed study of special literary groups (German symbolist poets, etc.). Each student produces a research paper.

O 1103 480
INDEPENDENT STUDY IN GERMAN (SENIOR LEVEL) 3.0
 Directed individual study and research in German for senior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest.

O 1103 481
INDEPENDENT STUDY IN GERMAN (SENIOR LEVEL) 3.0
 Directed individual study and research in German for senior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest.

O 1106 101
BEGINNING RUSSIAN I 3.0
 The fundamentals of grammar and pronunciation. Lab work.

O 1106 112
BEGINNING RUSSIAN II 3.0
 The fundamentals of grammar and pronunciation. Laboratory work.
Pre-requisite: O 1106 101 or equivalent.

O 1106 121
INTERMEDIATE RUSSIAN I 3.0
 Continuation of Russian 101 and 112. Open to students who have acquired an elementary knowledge of Russian elsewhere. Detailed review of Russian grammar and pronunciation, more advanced conversation. Lab. Work.
Pre-requisites: O 1106 112 or equivalent.

O 1106 132
INTERMEDIATE RUSSIAN II 3.0
 Continuation of Russian 121. Open to students who have acquired an elementary knowledge of Russian elsewhere. Detailed review of Russian grammar and pronunciation; more advanced conversation. Lab. Work.
Pre-requisite: O 1106 121 or equivalent.

O 1106 141
ADVANCED RUSSIAN I 3.0
 Intensive study of Russian grammar, composition and translation, with assigned research in areas of special interest to individual students. Laboratory work.
Pre-requisite: O 1106 132 or equivalent.

O 1106 152
ADVANCED RUSSIAN II 3.0
 Intensive study of Russian grammar, composition and translation, with assigned research in areas of special interest to individual students. Laboratory work.
Pre-requisite: O 1106 141 or equivalent.

O 1106 478
INDEPENDENT STUDY IN RUSSIAN 1-3.0
 Directed individual study and research in Russian for special students.
Pre-requisite: Permission of instructor and department chairman.

O 4903 291
SCANDINAVIAN EXISTENTIALISM THE LITERARY TRADITION (IN ENGLISH) 3.0
 A study of the dominant tradition in Scandinavian literature that emerged in the wake of Kierkegaard's penetrating critique of German Romanticism. This course will consider the tension between fantasy and reality that informs the works of such writers as H. C. Andersen, J. P. Jacobsen, Ibsen, Strindberg, Hamsun, Lagerlof, Isak Dinesen, M. A. Hansen, Par Lagerkvist, Eyvind Johnson, and Harry Martinson.

O 4903 292
GERMAN LITERATURE 1890-PRESENT (IN ENGLISH) 3.0
 The principle movements discernible in German literature since the end of the 19th century. Works representative of important authors and basic genres and trends. No knowledge of German is required.

O 4903 293
RUSSIAN CULTURE AND CIVILIZATION (IN ENGLISH) 3.0
 The history of Russian Literature and culture. Outstanding aspects of Russian civilization. No knowledge of Russian is required.

O 4903 294
RUSSIAN PROSE AND DRAMA (IN ENGLISH) 3.0
 Russian prose and drama from the 18th century to the present day. Representative works Pushkin, Gogol, Turgenev, Dostoevski, Tolstoi and Gorki. No knowledge of Russian is required.

O 4903 295
GERMAN EXPRESSIONISM (IN ENGLISH) 3.0
 Various aspects of German expressionism. Encompassing roughly the period between the two world wars; the political and social climate of the Weimar republic; literature, painting, sculpture, and music and the film of that era; defining expressionism as a specific historical period as well as a perennial stylistic device.

O 4903 392
THE MODERN GERMAN NOVEL (IN ENGLISH) 3.0
 Reading and discussion of selected novels by great 20th century authors who wrote in German: Thomas Mann, Franz Kafka, Hermann Hesse, etc. These works as expressions of the ages they represent. No knowledge of German is required.

O 4903 395
THE GERMAN "LIED" (IN ENGLISH) 3.0
 An interdisciplinary course tracing the German art song, setting up a procedure for the analysis of this mixed art form, evaluating individual efforts by comparing different musical settings of the same poem. Neither knowledge of German or musical sophistication is necessary.

Health Professions

Chairperson: Harry H. Hoitsma

The health profession is one that is growing. Whether already certified in an allied health specialty and seeking a chance to move into management, or looking for a career as a health educator, the department offers courses to prepare students for emerging opportunities in the health field.

The Bachelor of Science degree in health education includes preparation for community health positions and the necessary professional courses for a teaching certificate. The Bachelor of Science in Allied Health is designed for continuing the education of those already certified in one of the many allied health specializations. Here the course work develops leadership skills in management and supervision both at Montclair State and other cooperating institutions depending on the individual need.

Health Education Major

Required Courses

	Semester Hours
0837 101 Health for Personal Living	3
0836 207 Introduction to Safety	3
0837 232 Emergency Health Care	2
0837 210 Consumer Health	3
0837 220 Mental Health	3
0837 240 Foundations of Environmental Health	3
0837 290 Human Sexuality	3
0837 300 Current Problems in Health	3
0837 305 Communicable Diseases	3
0837 310 Chronic and Degenerative Diseases	3
0837 313 The Drug and Abuse Problem	3
0837 315 Community Health	3
1306 182 Nutrition	3
0401 250 Applied Microbiology	3
0837 404 Tests and Measurements in Health Education	3
0837 411 The School Health Problem	3

Collateral Courses

0401 100 Biological Sciences	4
0401 244 and 248 Mammalian Anatomy and Physiology I, II	
0401 245 and 249 and Lab	6
1905 107 and 108 College Chemistry I, II	
1905 109 and 110 and Lab	6

Electives

Select 12 sh from the appropriate list to be obtained from the department.....12

Teacher Certification (Health Educator)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching.

Professional Sequence Community Health Services

0837 245 Observation of Health Agencies	2
0837 350 Field Study in Health	6
0837 460 Systems of Health Services Delivery	3
Social and Behavioral Sciences	6
Mathematics and Science	6

Allied Health Services Major

Required Courses

	Semester Hours
0837 315 Community Health	3
0837 455 Core Concepts in the Delivery of Health Care	3
0837 460 Systems of Health Services Delivery	3
0506 231 The Management Process	3
0506 315 Organizational Behavior	3
0506 316 Human Resource Management	3
or	
0506 431 Middle and First Line Management	3
0502 201 Fundamentals of Accounting I	3
or	
0502 200 Accounting for Non Business Majors	3
1701 109 Statistics	3
1701 260 Introduction to Computer Applications	3
(May not be taken by students who have received credit for 1701 283 or 1701 461.)	
or	
0838 434 Introduction to Business Data Processing	3

Collateral Courses

2204 101 Principles of Economics — Macro	3
2204 102 Principles of Economics — Micro	3

Electives (Departmental)

Select 14 sh from the appropriate list to be obtained from the department.....14

Electives (General)

Select 11 sh from the appropriate list to be obtained from the department.....11

Technical Specialty in Allied Health

.....30
This must be completed at an academically accredited institution prior to transfer to Montclair State College.

Physical Education and Health Major (Dual Certification)

The department offers a component in the Physical Education and Health major provided in conjunction with the department of Physical Education. Satisfactory completion of this program leads to eligibility for a single New Jersey certificate in physical education and health. The health education component in this program is as follows:

REQUIRED COURSES

	Semester Hours
0837 401 Teaching of Health	3
0837 290 Human Sexuality	3
0837 411 The School Health Program	3
0837 313 The Drug and Abuse Problem	3
Select One	
0837 210 Consumer Health	3
0837 220 Mental Health	3
0837 240 Foundations of Environmental Health	3
Select Two	
0837 305 Communicable Diseases	3

0837 310	Chronic and Degenerative Diseases.....	3
0837 315	Community Health.....	3
0837 101	Health for Personal Living	3
	is required of all Physical Education majors.	

Physical Education requirements in this program are described in the Department of Physical Education.

Courses of Instruction

5 0836 207 INTRODUCTION TO SAFETY 3.0

Broad treatment of major safety areas, including transportation, public safety, industrial and home safety; accident causation and preventive measures currently employed; agencies and organizations involved in all facets of the safety movement.

5 0837 100 HEALTHFUL LIVING 2.0

The achievement and maintenance of optimum personal health. Mental health, nutrition and weight control, drug use and abuse, communicable diseases, chronic and degenerative diseases, sexual adjustment, consumer health and environmental health.

5 0837 101 HEALTH FOR PERSONAL LIVING 3.0

Nature and causes of human health problems preventive measures the individual can employ. Mental health, nutrition and weight control, physical fitness, communicable diseases, chronic and degenerative diseases, drug use and abuse, marriage and family life, and consumer health.

5 0837 210 CONSUMER HEALTH 3.0

Interpretation of individual economic activity as it relates to health service and health products. Includes analysis of factors influencing consumer health attitudes and behavior.

5 0837 220 MENTAL HEALTH 3.0

Provides for a study of human personality and the conditions conducive to its healthy development. Considerations are also given to the dynamics of adjustment, causes of maladjustment, and the nature of various emotional disorders and illnesses and their treatment.

Pre-requisite: A basic course in sociology, psychology, biology or anthropology.

5 0837 232 EMERGENCY HEALTH CARE 2.0

Considers the nature, causes and treatment of emergency health problems (accident, heart failure and heart attack, drug overdose, etc.) surveys community emergency services and provides insight into the scientific foundations of emergency health problems and treatment procedures.

5 0837 240 FOUNDATIONS OF ENVIRONMENTAL HEALTH 3.0

A multidisciplinary exploration of man's relation to his environment. The influence of man's action on the physical environment, and the effects of alteration of environment on man's mental and physical well-being. Environmental awareness underscored by contrasting rural and urban-industrial field experiences.

5 0837 245 OBSERVATION OF HEALTH AGENCIES 2-3

An introductory field course designed to acquaint students with a wide range of school and community health programs and professional specializations in health. Provides a series of field visits and short-term placements under professional supervision. For majors and non-majors.

Pre-requisites: 5 0837 101, must obtain written approval of instructor prior to registration.

5 0837 290 HUMAN SEXUALITY 3.0

Considers the biological, psychological, sociological, and philosophical aspect of human sexuality. The human reproductive system, sexual response, contraception, psycho-sexual development, homosexuality, sex and drugs, cross-cultural sexual behavior, and prostitution.

Pre-requisite: A basic course in sociology, psychology, biology or anthropology.

5 0837 300 CURRENT PROBLEMS IN HEALTH 3.0

Seminar-type course providing intensive study of selected contemporary health problems. Identification and interpretation of current health issues, from the standpoint of recent scientific and societal developments.

5 0837 301 ADDICTIONS AND DEPENDENCIES 2.0

Nature and causes of drug dependencies, including study of substances capable of producing dependency. Preventive measures and various approaches to treatment and rehabilitation of drug-dependent persons.

5 0837 305 COMMUNICABLE DISEASES 3.0

A basic course in communicable diseases. Includes study of historical background, societal implications, as well as consideration of the epidemiology of specific communicable diseases.

5 0837 310 CHRONIC AND DEGENERATIVE DISEASE 3.0

The problems of chronic and degenerative diseases as a cause of death and disability. The nature and causes of various chronic and degenerative diseases along with the measures for their prevention and treatment.

5 0837 313 THE DRUG AND ABUSE PROBLEM 3.0

Physical, psychological, pharmacological, societal, legal and educational aspects of drug abuse. Rehabilitative and preventive measures against a background of constantly-changing conditions.

5 0837 315 COMMUNITY HEALTH 3.0

A basic course focusing on major health problems currently affecting the local, state, national and international scenes and includes consideration of political, social and economic factors. Special attention is directed to the public health organizations and agencies dealing with these health problems.

Pre-requisite: CRS in similar field.

5 0837 347 HEALTH ISSUES FORUM 1-3

In-depth study of a health issue of current public or professional concern, including analysis of recent literature and presentations by authoritative spokesmen for significant points of view. Topic to be announced each semester. Course credit to be determined by nature and breadth of topics selected. With permission of the department, the course may be taken more than once.

Pre-requisites: Junior or senior standing specific prerequisites may be required for certain forum topics.

5 0837 350

FIELD STUDY IN HEALTH

2.6

Selected experiences in community health work through arrangements with various kinds of health agencies. Major projects developed under supervision of a faculty member and a qualified person in the health professions agency.

Pre-requisites: Must obtain written approval of instructor prior to registration, CRS in similar field.

5 0837 367

EXPANDED DUTIES — DENTAL AUXILIARY

2.0

The expanded duties course serves as an overview of the many delegable tasks within dental practice and it will provide instruction in those skills needed for participation in progressive dental care delivery systems. The course is geared to the needs of dental auxiliary educators as they teach expanded duties to student dental assistants and dental hygienists. One hour lecture, three hours laboratory.

Pre-requisites: Dental Hygiene registration or dental assisting certification.

5 0837 401

THE TEACHING OF HEALTH

3.0

For students planning to teach health education. The development and organization of major health topics; current teaching methods and techniques, and their relation to the contemporary school health instruction program.

Pre-requisite: CRS in similar field.

5 0837 404

TESTS AND MEASUREMENTS IN HEALTH EDUCATION

3.0

Statistical procedures and analysis of existing evaluation instruments. Measurements in cognitive, affective and psychomotor domains.

5 0837 411

THE SCHOOL HEALTH PROGRAM

3.0

The total school health program; school health services; a healthful school environment, and the comprehensive school health education program.

5 0837 441

ALLIED HEALTH CARE SERVICES

3.0

Comprehensive survey of health related occupations, with emphasis on job specifications, educational requirements, and educational and career lattices. Intended primarily for health careers educators, vocational counselors, and health educators.

Pre-requisite: 12 semester hours in health education, applied health science or guidance and counseling, or instructors permission.

5 0837 445

PERSPECTIVES ON DEATH

3.0

Exploration of the personal and social meanings of death. Formulation of realistic plans for living, through education about death.

Pre-requisites: 5 0837 200 or instructors permission.

5 0837 455

CORE CONCEPTS IN THE DELIVERY OF HEALTH CARE

3.0

Interdisciplinary analysis of the patient care and supporting functions of health practitioners in the provision of health care, emphasizing underlying medical and human services principles and the roles of allied health personnel.

Pre-requisites: Six months of occupational experience in an allied health specialty. CRS in similar field.

5 0837 456

CLINICAL INTERNSHIP IN ALLIED HEALTH

1-4

Provides placements in a series of clinical settings to provide pre-service and in-service health occupations educators with opportunities to gain first-hand knowledge of the practice of a variety of health occupations. The nature and sequence of the experiences will be determined by individual needs and professional objectives.

Pre-requisites: Professional licensure in an allied health specialty and 5 0837-441. (Allied Health Care Services); CRS in similar field.

5 0837 458

CURRICULUM AND TEACHING IN HEALTH OCCUPATIONS EDUCATION

3.0

Application of curriculum and teaching principles in secondary and post-secondary health occupations instructional programs. First semester: classroom teaching and special instructional methods. Second semester: clinical instruction, curriculum development and coordination of health occupations programs.

Pre-requisites: T 2001 200 OR, 5 0837 451 OR, 5 0837 452.

5 0837 460

SYSTEMS OF HEALTH SERVICES DELIVERY

3.0

The organization, administration and functions of health services in the United States and other major nations; the social and professional policies which determine their scope and nature. Principal methods currently employed in the U.S. for analysis and evaluation of health care systems. Offers opportunity to students to relate these general understandings to those segments of the health services system of particular professional interest to themselves.

Pre-requisite: CRS in similar field or instructor's permission.



History

Chairperson: Richard Barker

The study of history, in addition to being an important part of a broad liberal education, helps to prepare students for careers in teaching, law, government service, politics, journalism and creative writing, library science, business research, and positions with local, state or national archives, museums and historical societies or restorations agencies. The department offers specialized study mainly in American, European and Asian history. History majors may adapt their programs to meet certification requirements for teaching social studies in New Jersey secondary schools.

History Major

Required Courses

Semester Hours

2205 100	The Study of American History	3
2205 101	The Study of European History or	
2205 102	The Study of Non-Western History	3
	Concentration in American, Latin-American, European or Asian History	12

Electives

Select 15 sh from the appropriate list to be obtained from the department	15
Required Total	33

Teacher Certification (Social Studies)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching. The course 0899 0401 Methods of Teaching Social Studies is the departmental requirement.

The social studies teacher is expected to have a broad understanding of the cultural and environmental factors which shape the individual and society. To meet the approved program for certification in social studies, course work is required in each of the following: anthropology, economics, geography, history, political science and sociology. A detailed description of the requirements is available in the office of the school counselor.

Courses of Instruction

P 2201 223		
SIMULATION GAMES AND GLOBAL PROBLEM	3.0	
An innovative course utilizing both simulation games and books to inquire into the substantive problems of peace and justice, the ways and means of designing future change, and the uses of simulation techniques as a teaching/learning device.		

P 2205 100		
THE STUDY OF AMERICAN HISTORY	3.0	
The nature of historical research and reasoning. Student experience in working with actual historical materials and procedures.		

P 2205 101		
THE STUDY OF EUROPEAN HISTORY	3.0	
European history as a field of study and research. Basic historical concepts and generalizations related to the data of European history.		

P 2205 102		
THE STUDY OF NON-WESTERN HISTORY	3.0	
Problems of the researcher in Asian history. Sources of cultural history, including works of philosophy, literature, history and anthropology.		

P 2205 103		
FOUNDATIONS OF WESTERN CIVILIZATION	3.0	
Origins and development of western civilization to about 1350. Egyptian, Judaic, Greek, Roman, Islamic and Medieval European contributions.		

P 2205 104		
INTRODUCTION TO HISTORICAL THINKING	3.0	
History examined as a mode of inquiry. Emphasis on student experience working with historical materials, procedures and problems.		

P 2205 105		
DEVELOPMENT OF WESTERN CIVILIZATION TO 1815	3.0	
A study of the history of Europe from the end of the Middle Ages to the Congress of Vienna. The Renaissance and Reformation, the rise of new monarchies, Tudor and Stuart England, the Scientific Revolution, the Enlightenment, the French Revolution and Napoleon.		

P 2205 106		
DEVELOPMENT OF WESTERN CIVILIZATION SINCE 1815	3.0	
History of Europe from the Congress of Vienna to the present. The Industrial Revolution, Rise of Liberalism, Nationalism and Socialism. Unification of Italy and Germany. World War I and II. Post-1945 Europe.		

P 2205 108		
INTRODUCTION TO AFRICAN CIVILIZATION	3.0	
Pre-Colonial African civilization and its eclipse under slavery and the colonial onslaught. Principal social, political and environment systems of the period.		

P 2205 109		
INTRODUCTION TO ISLAMIC CIVILIZATION	3.0	
Examination of various institutions and value systems in Islam which characterize it as a major civilization. Important cultural developments as they are affected by the process of transition.		

P 2205 110		
INTRODUCTION TO AMERICAN CIVILIZATION	3.0	
The mainstreams of development in American civilization. Political, intellectual, social, economic and cultural forces and achievements which have made us distinctive.		

P 2205 111		
CONTEMPORARY AMERICAN ISSUES IN HISTORICAL PERSPECTIVE	3.0	
Examines contemporary issues in American society in historical perspective. Topics will vary from semester to semester in the light of changing problems confronting our society.		

P 2205 114		
EARLY LATIN AMERICAN CIVILIZATION	3.0	
The components of Latin American civilization. Considered are the geographical background and developments of the Mayan, Incan, and Aztec civilizations, the Spanish and Portuguese backgrounds and the wars of independence.		

- P 2205 115
HISTORY OF PUERTO RICO 3.0
The history and culture of Puerto Rico and interaction with Spain, Latin America and the United States.
- P 2205 116
MODERN LATIN-AMERICAN CIVILIZATION 3.0
Major themes in Latin American history during the 19th and 20th centuries, with emphasis on the struggle for freedom, equality, and economic independence.
- P 2205 129
INTRODUCTION TO ASIAN CIVILIZATION 3.0
Studies factors and patterns in the rise of Asian civilization and the emergence of three distinct cultural traditions in India, China and Japan. Examines problems of historical continuity and change in the style of culture and civilization.
- P 2205 131
INTRODUCTION TO INDIAN CIVILIZATION 3.0
The early history of India, 3000 B.C. to 1000 A.D. Principal religions, political and literary works, and their insights into Indian social values and institutions.
- P 2205 132
INTRODUCTION TO CHINESE CIVILIZATION 3.0
The early history of China, 2000 B.C. to 1300 A.D. Principal social, political and meta-physical-philosophic works, corresponding values and institutions.
- P 2205 133
MODERN CHINESE CIVILIZATION 3.0
Modern China and Japan, 1600 to the present. Changes in values and mutual influence of East and West, studied through literary, philosophical, anthropological, historical and artistic works.
- P 2205 141
THE FOUNDATIONS OF WORLD CIVILIZATION 3.0
The increasing interaction between world cultures and civilizations during A.D. 1500-1914. The central role of Europe in the development of the first global phase of world History to 1914. Cultural confrontation between west and non west in the age of modern imperialism.
- P 2205 142
TWENTIETH-CENTURY WORLD CIVILIZATION 3.0
The increasing interaction between world cultures and civilizations from 1914 to the present. The significance of World War I and II in world History. Contemporary world problems and issues in historical perspective.
- P 2205 204
THE SECOND WORLD WAR 3.0
A study of the origins and course of World War II in Europe, Asia and the Pacific.
- P 2205 205
MINORITIES IN AMERICAN HISTORY 3.0
A study of the historical background of the various ethnic, racial and religious minorities in contemporary American society.
- P 2205 206
HISTORY OF AMERICAN BUSINESS 3.0
Provides historical background toward understanding the present role business plays in American society. Examines the role of the entrepreneur and business manager in the evolution of American business.
- P 2205 210
SELECTED TOPICS IN AMERICAN HISTORY to 1876 3.0
Issues and problems in the development of the American nation from discovery and exploration to the Civil War and Reconstruction.
- P 2205 211
SELECTED TOPICS IN AMERICAN HISTORY SINCE 1876 3.0
Issues and problems in the development of the American nation from the Civil War to the present.
- P 2205 212
SOCIAL HISTORY OF THE UNITED STATES 3.0
Social and cultural aspects of American history. Population movements, rural and urban problems, status of women, Utopian ventures, mass media, recreation, human rights.
- P 2205 213
ECONOMIC HISTORY OF THE UNITED STATES 3.0
(Also listed as C 2204 0213)
Major trends in agriculture, commerce, finance, manufacturing, transportation and industrial relations from colonial beginnings to the present.
Pre-requisites: C 2204 101, C 2204 102 or C 2204 200.
- P 2205 214
DIPLOMATIC HISTORY OF THE UNITED STATES 3.0
Evolution of American foreign policy and diplomacy from the Revolution to the present. Selected basic readings in the field.
- P 2205 215
WOMEN IN AMERICAN HISTORY 3.0
The changing role and status of women in American society from colonial times to the present.
- P 2205 216
HISTORY OF THE AMERICAN FAMILY 3.0
Studies the history of the American family as a dynamic social institution. The course will focus on the changing role of the family in America; the varieties of family structures in past times, and the significance of the family in American cultural and social history.
- P 2205 217
HISTORY OF BLACK AMERICANS 3.0
Role of Americans of African descent in the development of the United States. Contributions of black Americans from initial discovery and exploration to mid-20th century.
- P 2205 218
POLITICAL HISTORY OF THE UNITED STATES 3.0
The historical development of American political institutions from the early 1700s to the present. Focus upon the evolution of constitutional and legal structures, the party system and pressure groups, the role of bureaucracies, and the impact of political leaders.
- P 2205 219
SPORT IN HISTORY 3.0
This course takes a global approach to the history of sport, but focuses on the role of sport in American history. It examines sport in early world cultures, the development of sport as a mass spectator phenomenon in modern times, and the social significance of sport in the contemporary world.
- P 2205 220
INTRODUCTION TO AMERICAN URBAN HISTORY 3.0
A study of the main developments in the rise of urban America. Examines the distinctive forces which brought about the urbanization of our society and analyzes the social, cultural, economic and political adjustments which the urbanization process stimulated and necessitated.

P 2205 221
EUROPE'S CONQUEST OF THE AMERICAS, 1415-1763 3.0
 A study of European explorations, discoveries and territorial settlements in the Americas during the 15th to the 18th century. Examination of the expansion and impact of Europe — institutions, ideas, traditions, technologies — and resulting confrontations with and impact on native American peoples.

P 2205 222
ECONOMIC HISTORY OF EUROPE
 (Also listed as C 2204 222) 3.0
 European economic development from the Middle Ages to the present. Emphasis on the first industrial revolution in Britain; comparing 19th century economic growth in Britain, France, Germany and Russia.

P 2205 225
THE POLES, CZECHS, SLOVAKS AND HUNGARIANS SINCE 1815 3.0
 This survey examines the history of east central Europe since the congress of Vienna. The spread and impact of Nationalism, Democracy, Facism and Communism will be considered.

P 2205 231
NEW JERSEY PAST AND PRESENT 3.0
 A survey of New Jersey history emphasizing (1) the state's political, economic, and social heritage and evolution, and (2) New Jersey's role in the development of the United States.

P 2205 281
GREEK CIVILIZATION (ALSO LISTED AS K 4903 281) 3.0
 Greece's contribution to western civilization is studied through her architecture, art, literature, and sculpture.

P 2205 282
ROMAN CIVILIZATION (ALSO LISTED AS K 4903 282) 3.0
 Rome's assimilation of Etruscan, Greek, and Oriental cultures in the process of creating her own. The planting of Roman culture and civilization along the route of the Roman Army. Monuments and relics as testimony to the Roman penetration and influence.

P 2205 309
FEMINIST IDEAS IN WESTERN THOUGHT 3.0
 History of feminist ideas and theories about women and womanhood. Students examine important theoretical literature in Europe and America from 18th century to present. Original texts of Wollstonecroft, Fuller, Mill, and Freud will be considered against their socio-historic milieu.

P 2205 310
IMMIGRANT IN AMERICAN HISTORY 3.0
 The processes by which the immigrant was incorporated into American society. Includes the cultural backgrounds from which the different groups came, the reasons for emigration, the nature of the communities they created once they reached the U.S., their religious and social institutions, the problems of maintaining ethnic culture with the pressure to Americanize.

P 2205 311
EARLY HISTORY OF NEW JERSEY 1702-89 3.0
 From royal colony to the establishment of the federal government under the constitution; state and local events during the American Revolution.

P 2205 312
HISTORICAL GEOGRAPHY OF THE UNITED STATES (ALSO LISTED AS N 2206 312) 3.0
 The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800. The rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1809.

P 2205 313
BIOGRAPHY IN AMERICAN HISTORY 3.0
 The significant biographical materials available in the study of American history. The problems and uses of biography.

P 2205 314
BIOGRAPHY IN EUROPEAN HISTORY 3.0
 A biographical examination of select, major figures in modern European history whose lives influenced their own and later times through the performance of their deeds in politics and statecraft.

P 2205 315
WAR IN HISTORY 3.0
 Examines selected wars in the history of the world in an attempt to learn about causes and consequences of war. Considers attempts to prevent war in the past, and proposed methods for preventing war in the future.

P 2205 319
AMERICAN URBAN HISTORY TO 1880 3.0
 The urban dimension in American history and development of city life to 1880. Shapers of the 19th century city; instability and disorders due to transit and demographic revolutions.
Pre-requisite: P 2205 210 OR, equivalent background.

P 2205 320
AMERICAN URBAN HISTORY SINCE 1880 3.0
 Transformation of the 19th century industrial city into the 20th century metropolis. The emergence of the New York metropolitan region.
Pre-requisites: P 2205 211 OR, equivalent background.

P 2205 321
HISTORY OF THE AMERICAN WORKER SINCE 1877 3.0
 History of the American worker rather than his trade union. The worker's legal status, political behavior, social and cultural activities, treatment by employer and state.

P 2205 322
MEDIEVAL EUROPEAN CIVILIZATION 450-1350 3.0
 Origins, development and significance of a civilization whose political, social and cultural foundations had a spiritual basis and unity.

P 2205 323
HISTORY OF RUSSIA TO 1917 3.0
 Factors shaping the Russian people: Byzantium and Greek Orthodox faith, tartar state organization, the Mir, westernization from Peter to Lenin, intellectual and radical movements.

P 2205 324
RUSSIA SINCE 1917 3.0
 Political, social, economic and intellectual developments in the Soviet Union. The relationship of ideology and national goals.

P 2205 326
NINETEENTH CENTURY GERMAN CULTURE AND SOCIETY 3.0
 The impact of modernization on 19th century German culture and society. Resulting conservative political traditions and irrational cultural trends.

P 2205 327
HISTORY OF FRANCE SINCE 1789 3.0
 Political, social, economic and intellectual developments in France since the revolution.

P 2205 328
CONFLICT IN MODERN IRELAND 3.0
 A history of Irish nationalism with emphasis on the period from 1782 to the present.

- P 2205 329
HISTORY OF ENGLAND TO 1714 3.0
Emphasis on political and constitutional history, the formation of basic institutions of law and government and related economic, social and cultural factors.
- P 2205 330
CHINESE SOCIAL HISTORY THROUGH LITERATURE 3.0
Masterpieces of the Chinese literary tradition from earliest times to the 20th century. Literary genre in historical perspective and as expression of social and cultural values.
- P 2205 331
HISTORY OF ENGLAND 1714-1914 3.0
Political, social and economic history from the Hanoverian succession to the 20th century. Industrial Revolution, changing balance of the constitution, British imperialism, the Irish question.
- P 2205 332
REVOLUTIONS IN LATIN AMERICAN HISTORY 3.0
Examines and compares the causes, course and consequences of three major social revolutions in Latin America: Mexico (1910), Bolivia (1952), Cuba (1959). The impact of these revolutions upon present-day Latin American domestic developments and international relations will also be evaluated.
- P 2205 333
HISTORY OF BRAZIL 3.0
Traces the historical development from the pre-historical Indian cultures to the 1970s. Covers the social, cultural, political, economic and religious aspects of the largest Latin-American nation.
- P 2205 335
COMMUNIST REVOLUTION IN CHINA 3.0
Ideological and historical significance studied against the background of domestic and international events, personalities and ideologies.
- P 2205 343
RESEARCH TECHNIQUES — AMERICAN HISTORY 3.0
This course is proposed for the three week January innovative instruction period as provided in the college calendar. The aim is to utilize this period for instruction of history majors in the techniques and problems of research with primary sources. Also, to familiarize them with the sources of American history in the depositories.
Pre-requisite: Open only to history majors. Limited enrollment of 12 students.
- P 2205 408
INDEPENDENT STUDY EUROPEAN HISTORY 3.0
To provide opportunity for capable students, mainly history majors, to do independent work in the field of European history.
- P 2205 409
INDEPENDENT STUDY NON-WESTERN HISTORY 3.0
To provide opportunity for capable students, mainly in history or transcultural studies, to do independent work in the field of non western history.
- P 2205 410
INDEPENDENT STUDY IN AMERICAN HISTORY 3.0
To provide an opportunity to do independent work in the field.
- P 2205 411
INTELLECTUAL HISTORY OF THE UNITED STATES 3.0
Development and contributions of the thought of individuals and groups, dominant and minority, and their effect on the American mind, traditions and practices.
- P 2205 413
THE PHILOSOPHY OF HISTORY 3.0
Development of historical thought and the writing of history in the western world from Herodotus to the present.
- P 2205 416
CHURCH AND STATE IN LATIN AMERICA 3.0
The Roman Catholic Church as the major spiritual institution as well as a cultural, moral, political and economic force in Latin America.
- P 2205 419
AGE OF RENAISSANCE, 1350-1517 3.0
Political, economic, social and broad cultural developments in Italy and western Europe during 1350-1517.
- P 2205 420
THE REFORMATION ERA, 1500-1650 3.0
Religious movements of the 16th and 17th centuries, their medieval antecedents. The accompanying political, intellectual and socioeconomic forces.
- P 2205 422
STUDIES IN ENLIGHTENMENT HISTORY 3.0
Major intellectual developments in 18th century Europe. Rise of skepticism, toleration, empiricism, idea of progress. Readings in Hume, Voltaire, Diderot Rousseau, Kant and antecedent figures.
Pre-requisite: P 2205 105 or, equivalent background.
- P 2205 424
DIPLOMATIC HISTORY OF EUROPE 3.0
Diplomatic history of Europe since the Congress of Vienna. Emphasis on development of diplomatic practice and relations between states during 1870 to present.
- P 2205 425
IDEAS IN EUROPEAN HISTORY: BURKE TO NIETZSCHE 3.0
Conservative, liberal, romantic, utilitarian and early existential streams of thought in 19th century Europe. Readings in Burke, Bentham, Mill, Hegel, Nietzsche and others, with attention to historical background.
Pre-requisite: P 2205 106 or, equivalent background.
- P 2205 426
THE NAZI THIRD REICH 3.0
Major economic, social, political and intellectual developments in 20th century Germany. Demise of Weimar Republic and ascension of Nazi Third Reich.
Pre-requisites: P 2205 106 OR, equivalent background .
- P 2205 431
DEVELOPMENT OF INDIAN CHARACTER AND CULTURE 3.0
The historical conditioning of Indian behavior. Culture change in the perspective of colonialism and modernization. Contributions of religion to social and political values and modern literature.
Pre-requisite: P 2205 131.
- P 2205 432
DEVELOPMENT OF JAPANESE CHARACTER AND CULTURE (Also listed as J 2202 432) 3.0
The historical conditioning of Japanese behavior. Cultural change in the perspective of traditional periodization of Japanese history. Contributions of religion and philosophy to defining social values.
- P 2205 433
AMERICAN COLONIAL HISTORY 1607-1763 3.0
Developments within the English colonies, interactions between England and the colonists, growth of a distinctive American society.

P 2205 434
AMERICAN REVOLUTION AND EARLY REPUBLIC
 1763-1828 3.0
 Analysis of events leading to the war for independence. Political, economic and foreign problems of the new nation and growth of nationalism.

P 2205 435
THE UNION IN CRISIS 1820-1877 3.0
 Significant events and developments of the period, Jacksonian Democracy, westward expansion and sectionalism, the Civil War and reconstruction.

P 2205 436
AMERICA IN THE GILDED AGE 3.0
 The forces which contributed to the development of modern, industrialized America. American Society and its reaction to changes of the period.

P 2205 437
AMERICAN SOCIETY IN 20TH CENTURY 3.0
 The continuing reactions to the problems of an industrialized America. The New Deal and recent supreme court decisions.

P 2205 438
AMERICA IN THE SIXTIES: THE CRISIS OF CONSENSUS LIBERALISM 3.0
 Analyzes the crisis of American liberalism as that ideology was beset by the consequences of postwar affluence and the growing radicalism during the Kennedy-Johnson administration; and the backlash that developed into the Nixon "New Majority."

P 2205 443
INTERNSHIP IN HISTORY 3.0
 Opportunity for the advanced student to acquire practical experience working directly with primary sources of history in state and local depositories of historical materials.
Pre-requisites: 21 semester hours prior course work in history and permission of program coordinator.

P 2205 460
INDEPENDENT TRANSCULTURAL STUDY 3.0
 Conducted as an interdisciplinary tutorial course with no formal class meetings, this study program includes directed reading and preparation of written papers on transcultural subjects not offered in the regular curriculum and advanced independent study of subjects with which students have had course experience. Students seeking admission must secure approval of at least two professors representing different fields in the transcultural program.
Pre-requisite: 21 semester hours of credit in transcultural studies

P 2205 461
CULTURAL HISTORY OF PRIMITIVE SOCIETIES (Also Listed as J 2202 461) 3.0
 Interdisciplinary approach to the aims, methods and techniques of ethnohistorical research. Sources of data include both documentary and non-documentary evidence in reconstructing the culture history of pre-literate or semi-literate societies.
Pre-requisites: J 2202 100 or, P 2205 102.

Home Economics

Chairperson: Lois J. Guthrie

The home economics program is designed to give students an interdisciplinary, applied perspective on issues of individuals and families. Students may prepare to teach, work with business, agencies, government programs, and/or other institutions. There are five concentrations within the program which provide for a variety of interests.

Home Economics Major

Required Courses (All Concentrations)

	Semester Hours
1301 100 Professional Orientation	2
1304 270 Individual Management: Theories and Strategies	3
1301 304 Introduction to Research	3
1301 400 Senior Seminar	1

Concentration Programs Within the Major

CONSUMER AFFAIRS

Required Courses

	Semester Hours
1305 140 Family in Society	3
1304 470 Family Management	3
1304 335 Consumers in the Market	3
1301 409 Internship in Home Economics	8-12
1304 435 Consumer Action	3
1305 445 The Inner City Family	3
12 sh in one of these areas: Foods and Nutrition or Clothing, Textiles, Housing, Interior Design or Consumer Services.	

Collateral Courses

0509 340 The Marketing Process	3
1506 234 Fundamentals of Public Speaking	3
1509 203 Ethics	3
2001 101 General Psych. I	3
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3
History course OR	
Cultural Anthropology 2202 100	3
Political Science course	3

Electives (general)

Select 38 sh from the appropriate list to be obtained from the department38

FOOD SERVICE MANAGEMENT

Required Courses

	Semester Hours
1306 150 Principles of Food Preparation	3
1306 153 Food and Man	3

1306 182	Nutrition.....	3
1307 252	Organization and Management of Food Service Systems.....	3
1307 253	Quantity Food Purchasing and Production.....	3
1307 254	Food Service Equipment.....	3
1307 353	Specialized Food Production.....	3
1301 409	Internship in Home Economics.....	8-12
0502 200	Accounting for non-majors	3
0501 310	The Management Process.....	3
0509 340	The Marketing Process	3
0501 261	Legal Environment of Business I.....	3
0501 316	Human Resource Management or	
2001 240	Industrial and Organizational Psychology.....	3
1701 108	Computers and Programming	3

Collateral Courses

1905 107	College Chemistry I	3
1905 130	Organic Chemistry.....	4
0401 242	Human Biology	3
0401 250	Applied Microbiology.....	3
2204 101	Prin. of Economics: Macro.....	3
2204 102	Prin. of Economics: Micro.....	3
2001 101	General Psych. I.....	3

Electives

Select 21-25 sh from the appropriate list to be obtained from the department 21-25

Foods and Nutrition

Required Courses

	Semester Hours
1305 140	Family in Society3
1306 150	Principles of Food Preparation3
1306 153	Food and Man3
1306 182	Nutrition3
1306 255	Meal Management3
1304 470	Family Management3
1305 445	The Inner City Family3

Collateral Courses

1905 107	College Chemistry I	2
1905 109	College Chemistry Lab.....	1
1905 130	Organic Chemistry.....	4

Electives

Select 26 sh from the appropriate list to be obtained from the department26

AMERICAN DIETETICS ASSOCIATION

In addition to taking course requirements listed for the Home Economics major and the Foods and Nutrition concentration, a student who wishes to fulfill the minimum requirements for professional training of the American Dietetic Association should contact the department for current requirements.

HOME ECONOMICS EDUCATION

Required Courses

	Semester Hours
1303 120 Clothing Construction.....	3
1303 122 Clothing and Culture.....	3
1305 140 Family in Society or	
1305 248 Family Relations.....	3

1301 141	Interpersonal Relations.....	3
1306 150	Principles of Food Preparation	3
1302 160	Equipment in the Home.....	3
1306 182	Nutrition.....	3
0893 201	Introduction to Home Economics Education.....	3
1305 214	Child Development I	3
1306 255	Meal Management	3
1302 260	Human Shelter.....	3
1304 470	Family Management.....	3
1303 298	Textiles	3
1304 435	Consumer Action	3

Collateral Courses

2001 101	General Psychology I	3
2204 101	Economics (Macro).....	3
	Anthropology or Sociology	3

Electives (major)

Select 3 sh from the appropriate list to be obtained from the department.....3

K-12 Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching. In addition the course 1308 309 (Teaching Home Economics) must be taken.

	Semester Hours
2001 101 General Psychology I.....	3
2001 201 Child Psychology	3
Anthropology or Sociology.....	

Electives (general)

Select 38 sh from the appropriate list to be obtained from the department38

FAMILY AND CHILD STUDIES

Required Courses

1303 122	Clothing and Culture OR	
1303 221	Fabrics for the Consumer.....	3
1305 140	Family in Society	3
1301 141	Interpersonal Relations.....	3
1306 182	Nutrition.....	3
1305 214	Child Development I	3
1304 231	Family Economics or	
1304 331	Money Management.....	3
1304 470	Family Management.....	3
1306 153	Food and Man	3
1305 314	Child Development II.....	3
1305 315	Field Experiences in Family and Child Services..	3
1305 342	Family Sociology.....	3
1305 445	The Inner City Family.....	3
1301 448	Family Counseling	3

Students wishing N-K teacher certification may omit 1306 153, and may substitute a Home Economics elective for 1304 470. In addition they have the choice of taking 1305 314 Child Development II or:

1305 418	Strategies for Working with Parents or	
1305 414	Organization and Management of Child Care Centers.....	3

Collateral Courses

2001 101	General Psych I.....	3
2001 201	Child Psychology	3
	Anthropology or Sociology.....	3

Electives

Select electives from the appropriate list supplied by department.....2-34

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching. In addition, the following courses must be taken:

- *1305 319 Language and Literature for Young Children3
- 1305 416 Creative Experience I: Expressive Media3
- 1305 417 Creative Experiences II: Cognitive Development3
- 1305 420 Program Planning Early Childhood3
- *0808 400 Foundations of Reading Inst.3

*(Instead of Develop. Reading I&II)

Courses of Instruction

6 0893 201
INTRODUCTION TO HOME ECONOMICS 3.0
Exploration of the roles of home economics educators; home economics programs; teaching environments; curriculum design and methodology. Field trips to a variety of programs followed by analysis.

6 0893 302
NUTRITION EDUCATION TECHNIQUES 3.0
Procedures and techniques for developing programs and teaching nutrition to a variety of target populations. Individual and group methods are studied emphasizing innovation.
Pre-requisite: 6 1306 182.

6 0893 306
MANAGEMENT IN THE SECONDARY SCHOOL CURRICULUM 2.0
Identification of managerial competencies and development of skills for integrating them into the home economics curriculum.
Pre-requisites: 6 1304 270, 6 1304 470.

6 0893 307
VOCATIONAL EDUCATION 2.0
Principles and practices of vocational education including history, development, organizations and objectives. Observations in vocational education programs.

6 0893 309
TEACHING OF HOME ECONOMICS 3.0
Curriculum development. Materials and teaching strategies appropriate to home economics. To be taken the semester prior to student teaching. 0829 410 Field Experience in Education must be taken concurrently. To be taken semester prior to student teaching.

6 0893 402
NON-FORMAL EDUCATION IN HOME ECONOMICS 3.0
For home economists interested in teaching adults in school, community and extension programs. Understanding the adult learner and developing appropriate programs and teaching strategies. Observations in adult programs.
Pre-requisite: 6 0893 309.

6 0893 403
CONSUMER EDUCATION TECHNIQUES 3.0
Curriculum development, teaching strategies, resources and materials related to teaching consumer education.
Pre-requisite: 6 1304 435.

6 0893 404
EVALUATION IN HOME ECONOMICS 3.0
The philosophy, purpose and variety of techniques for gathering and weighing evidence. Evaluating home economics programs and their objectives. Students may focus on local, state and federal programs and their special accountability processes.
Pre-requisite: 6 0893 309 or equivalent.

6 0893 405
HOME ECONOMICS IN THE MIDDLE SCHOOL 3.0
Philosophy and organization of home economics in the middle school. Supervisory techniques and curriculum development examined as a basic for designing courses.
Pre-requisite: Classroom or student teaching experience.

6 0893 406
OCCUPATIONAL EDUCATION IN HOME ECONOMICS 3.0
Field experiences in programs where home economics skills are applied to wage-earning. Curriculum development, roles of the home economist occupational teacher-coordinator, and supervision of students enrolled in wage-earning programs.
Pre-requisite: 6 0893 309.

6 0893 410
TEACHING DAILY LIVING SKILLS TO THE HANDICAPPED 3.0
Analysis of daily personal management problems and their application to the handicapped. Opportunity to explore community resources, examine and develop materials and teaching strategies appropriate for teaching daily living skills to the handicapped. Field experience included.
Pre-requisite: 6 1304 270, instructors permission, Junior standing.

6 1301 100
PROFESSIONAL ORIENTATION 2.0
Orientation to the philosophy of the profession. Field experiences with home economists in a variety of settings, for exposure to the breadth of professional opportunities.

6 1301 141
INTERPERSONAL RELATIONS 3.0
Relevant and up-to-date information about meaningful human relationships throughout the life cycle. Emphasis is placed on exploring the dynamics of one to one interaction, both professional and personal. Provides students the opportunity to explore and better understand their present relationships and learn interpersonal skills to enrich relationships — small group work involved.

6 1301 205
WOMEN IN CONTEMPORARY SOCIETY 3.0
Those historical developments and social forces which have shaped the status of women in America. Discussion of current concerns and role options available to today's women.

6 1301 300
FIELD TRIP EXPERIENCES IN HOME ECONOMICS 1.0
An opportunity to study the policies, problems and contributions of business, industry and community agencies which relate to families as consumers.

6 1301 301
VOLUNTEER IN THE COMMUNITY 2-4.0
The role of the volunteer solving the socio-economic-civic-educational problems facing individuals and families. Volunteer participation as an individual and in groups.

- 6 1301 304
INTRODUCTION TO RESEARCH 3.0
Helps students become aware of the contributions of research to the advancement of human welfare. Developing skills for intelligent pursuit and consumption of research. Opportunity for individual groups to plan and execute a small empirical inquiry. Not for freshmen.
- 6 1301 308
INDEPENDENT STUDY 1-3.0
Advanced areas of home economics not offered in the regular curriculum.
Pre-requisite: Junior or senior standing.
- 6 1301 345
SEX ROLES IN A CHANGING WORLD 3.0
Sex role development and stereotypes that exist in our society and cross-culturally.
Pre-requisites: 6 1301 141, 6 1305 248 OR, 6 1305 140.
- 6 1301 400
SENIOR SEMINAR 1.0
The role of professional home economists in meeting contemporary societal needs. Problems of entry into the field. Home Economics Major only. Seniors only.
- 6 1301 401
RESEARCH METHODS IN HOME ECONOMICS 3.0
This course provides students an alternative choice to the present research course, Introduction to Research. Planned at a more advanced level, this will give students the opportunity to plan and execute individual research projects. Credit will not be granted for 1301 304 and 1301 401.
- 6 1301 408
WORKSHOP IN HOME ECONOMICS 1-3
Opportunity to study selected current problems in the field of home economics.
- 6 1301 409
INTERNSHIP IN HOME ECONOMICS 8-12
Opportunity to work as an intern, with a professional home economist in business, a community agency or an organization.
Pre-requisite: Senior standing only. Permission of instructor.
- 6 1301 444
SOCIAL CHALLENGE OF AGING 3.0
The change over the adult life span as it affects family interaction and resources in various sub-cultures. Implications for social policy and institutions relative to an increasing aging population. Field participation with agencies and elders, minimum 6 hours contact.
- 6 1301 448
FAMILY COUNSELING 3.0
Techniques and theories of collecting data and counseling families with such problems as money management, nutrition concerns, parent-child relationships and value conflicts.
Pre-requisites: 30 crs. in Home Economics or Permission of instructor, Junior or senior standing.
- 6 1302 160
EQUIPMENT IN THE HOME 3.0
Principles and resources involved in the selection, use and care of equipment in the home.
- 6 1302 260
HUMAN SHELTER 3.0
The housing needs of today's families from an economic, social and psychological premise. The organization of living space, selection and use of materials to meet the needs of the family throughout the life cycle.
- 6 1302 265
INTERIOR DESIGN 3.0
The selection, organization and evaluation of furnishing for the residential environment. Principles and elements of design are studied in relation to interior residential space.
- 6 1303 120
CLOTHING CONSTRUCTION 3.0
Theory and techniques for achieving well-fitted apparel is stressed. Basic concepts, competencies and technologies using appropriate fabrics and commercial patterns are studied.
- 6 1303 122
CLOTHING AND CULTURE 3.0
Dress is analyzed in terms of cultural, social, psychological, historic and economic influences. Clothing choices are related to individual concerns; including esthetic, physical and ecological factors.
- 6 1303 220
TEXTILE AND APPAREL INDUSTRY 3.0
An in-depth study of factors which spur progress, affect supply and demand, and ultimately the consumer. The history, economic structure and patterns of production, distribution and marketing of textile and clothing industries.
- 6 1303 221
CONSUMER PROBLEMS IN TEXTILES 3.0
Consumer preferences and responsibilities in the selection of textiles for individuals and families is stressed. Information on fibers, construction processes and quality control is studied.
- 6 1303 226
ADVANCED CLOTHING CONSTRUCTION 3.0
A conceptual approach to problems in custom dressmaking. Projects develop a better understanding of fabric characteristics, selection of appropriate construction techniques and suitability of fashion to the individual.
Pre-requisite: 6 1303 120 or equivalent.
- 6 1303 298
TEXTILES I: INTRODUCTION 3.0
Intensive study of fibers, yarn, fabric constructions, and finishes is related to consumer concerns for use, durability, care, and cost. Appropriate selections for apparel and home furnishings are stressed. For students with a professional interest in textiles and clothing.
- 6 1303 320
HISTORICAL ANALYSIS OF COSTUME 3.0
The development of clothing. Clothing usage in terms of social, economic and aesthetic backgrounds. Not open to freshmen.
- 6 1303 322
FIELD VISITS TO CLOTHING AND TEXTILES FIRMS 1.0
Opportunity to observe systems of manufacture, distribution and marketing of textile merchandise. Permission of instructor required.
- 6 1303 323
FABRICS AND FASHION 3.0
Fiber, yarn, construction and finish related to product potential and to satisfying consumer needs and purposes. Fashion materials including feather, fur and lace. Textile goods such as floor coverings, household linens and children's apparel.
Pre-requisites: 6 1303 298, 6 1303 221.

6 1303 398

TEXTILES II: PRODUCTION AND PERFORMANCE 3.0

Basic information is used in the study of fabric production. Development and implementation of textile standards, impact of socio-economic forces, trends in merchandising, and consumership are discussed. Field experiences included.

Pre-requisite: 1303 298, or consent of instructor.

6 1303 422

APPAREL DESIGN: DRAPING 3.0

Design principles and fabric properties, figure types, and fashion interest. Draping fabric on a three-dimensional body and form for interpretation of design.

Pre-requisite: 6 1303 120.

6 1303 424

TAILORING 3.0

The concepts, procedures and skills of custom tailoring; Techniques of fine as well as speed processes; Comparing and evaluating custom and factory-made garments.

Pre-requisite: 6 1303 120.

6 1303 426

APPAREL DESIGN: FLAT PATTERN 3.0

Flat pattern design in developing original designs for apparel. A basic pattern is used to execute designs related to the use of fabric on a human form.

Pre-requisite: 6 1303 120.

6 1304 231

FAMILY ECONOMICS 3.0

The family as an economic unit in society. Economic behavior of various sub-cultures, age groups and family patterns.

6 1304 270

INDIVIDUAL MANAGEMENT: THEORIES AND STRATEGIES 3.0

Designed to provide the opportunity to investigate management theories and apply them to personal life. Influences on, and blocks to, personal management, problem solving, planning, and expediting are emphasized.

6 1304 331

MONEY MANAGEMENT 3.0

The role and meaning of money in individual and family living. Income as a means of acquiring a style of life. The effective control of income in spending, saving, credit purchases and providing for future needs. Not open to freshmen.

6 1304 335

CONSUMERS IN THE MARKET 3.0

The consumer perspective of the marketplace. Emphasis on developing research skills and understanding laws, regulations and agencies that effect the consumer. Not open to freshmen.

6 1304 370

INDIVIDUAL AND FAMILY PROBLEM-SOLVING 3.0

Dealing with daily living through increased competence in decision-making and problem-solving in a variety of life styles. Not open to freshmen.

6 1304 435

CONSUMER ACTION 3.0

The marketplace as a social, psychological and economic institution serving families. Emphasis on advertising, selling practices, pricing strategies, trends and current issues which affect the quality of goods and services.

Pre-requisites: C 2204 101 or C 2204 102.

6 1304 470

FAMILY MANAGEMENT 3.0

Designed to provide the opportunity to analyze situations in which individuals and families use resources to maintain daily life and solve problems. Roles, goals, decision making, use of human and nonhuman resources and factors influencing household management.

Pre-requisite: 6 1304 270.

6 1304 471

TIME MANAGEMENT 3.0

Time as a dimension of life related to values in social systems and subcultures. Changing demands and pressures on time. An analysis of personal time use.

Pre-requisite: 6 1304 270.

6 1305 140

FAMILY IN SOCIETY 3.0

An introductory course in the study of the family. Designed to provide basic insights and concepts from the social sciences to study the history and structure of the family as a basic, but changing, institution in modern America.

6 1305 214

CHILD DEVELOPMENT I 3.0

The pre-school child (2-5 years). The major challenges confronting the developing child as he/she masters the task of socialization. Supervised observation and participation with groups of pre-school children for 2½ hrs. per week, each week of the semester.

Pre-requisite: T 2001 101.

6 1305 215

INFANT DEVELOPMENT 3.0

The infant as a developing individual within the family. Theory and research in the area of human infancy physical, cognitive and emotional growth from pre-natal through the first two years of life.

6 1305 216

TECHNIQUES FOR THE STUDY OF CHILD PERSONALITY 3.0

Skills and tools to help the teacher become more aware of the needs, motivations, competencies and values of young children. Opportunities to observe and record children's activities.

Pre-requisite: 6 1305 214.

6 1305 248

FAMILY RELATIONS 3.0

The family life cycle typical issues, emotional patterns and developmental tasks of late adolescence. Courtship, adjustment in marriage, pregnancy, child rearing. Later stages of parenthood and old age. Students' own relationships, values and sex roles discussed and compared with facts and trends of American society.

6 1305 314

CHILD DEVELOPMENT II 3.0

The growth and development of the school-aged child (6-18). Examination of peers and family interactions, as well as the institutions of society as they influence the developing child/adolescent. Assigned activities with adolescents with 15 hours of field participation.

Pre-requisite: 6 1305 214.

6 1305 315

FIELD EXPERIENCES IN FAMILY AND CHILD SERVICES 3.0

Planned supervised experience with selected agencies offering services for families and children. 35 hours of field work required. *Pre-requisites:* 30 hours of Family and Child Studies Program requirements.

Pre-requisite: 6 1305 214.

6 1305 319
LANGUAGE AND LITERATURE FOR YOUNG CHILDREN 3.0
The qualities of children's expression through language, books, stories and poems. Criteria for evaluating material for the pre-school program. Not open to freshmen.

6 1305 320
PARENTING SKILLS AND RESOURCES 3.0
Opportunity for students to develop effective parenting skills and knowledge of human development needed for application of these skills. Impact of parenting resources on both parents and non-parents. Examines local, state and national resources. Assigned activities with children.

6 1305 342
FAMILY SOCIOLOGY 3.0
Familiarizes students with data relating to the family as an institution, its development, dynamics and place in society. The impact of rapid social change on the American family. Not open to freshmen.

6 1305 414
ORGANIZATION AND MANAGEMENT OF CHILD CARE CENTERS 3.0
The basic principles of supervision and administration as applied to developing a sound program in a modern pre-school program. The learning process as applied to the professional development of staff. The organization and administration of individual classrooms as well as the total school program and the relationship of the school to community services and agencies.
Pre-requisite: 6 1305 214, Junior/Senior standing.

6 1305 415
CHILD IN THE COMMUNITY 3.0
The attitudes, mores and values of family and neighborhood life as determinants of the child's adaptation to school. Growing up in families of deviant patterns. Specialists and agencies in the community.
Pre-requisite: 6 1305 214, Junior/Senior standing.

6 1305 416
CREATIVE EXPERIENCES I: EXPRESSIVE MEDIA 3.0
Offers students preparing to teach in an early childhood program an opportunity to have curriculum experiences designed to nurture young children's self-expression and creativity in areas of art, music, dramatic play, woodworking and block play. A theoretical basis to the practice of these areas will be incorporated.
Pre-requisites: 6 1305 214 Majors only or Senior Standing.

6 1305 417
CREATIVE EXPERIENCES II COGNITIVE DEVELOPMENT 3.0
Provides an opportunity for students preparing to teach young children to have workshop experiences related to the physical and social world. Appropriate curriculum materials and activities in the areas of science, math and social studies will be discussed and presented.
Pre-requisite: 6 1305 317 Majors only.

6 1305 418
STRATEGIES FOR WORKING WITH PARENTS 3.0
Establishing a positive team approach between the parent and teacher. Parent-teacher interaction. How the teacher interprets parental anxieties, and conducts individual conferences and group meetings.
Pre-requisites: 1309 214; CRS in similar field.

6 1305 419
SPECIAL STUDIES IN FAMILY AND CHILD SERVICES 3.0
Exploring special concerns in the area of family life and child development.
Pre-requisite: CRS in similar field.

6 1305 420
PROGRAM PLANNING IN EARLY CHILDHOOD EDUCATION 3.0
Principles of curriculum development for programs for pre-school children. Taken the semester prior to student teaching and concurrently with 0829 410 Field Experience in Education.
Pre-requisite: Admission to Teacher Education Program for certification or permission of instructor.

6 1305 445
THE INNER CITY FAMILY 3.0
Sub-cultures residing in large cities. The impact of urbanization, ethnicity, social and economic institutions. Problems which families encounter. Community contact is part of the course.
Pre-requisite: Junior/Senior standing.

6 1306 150
PRINCIPLES OF FOOD PREPARATION 3.0
Principles of basic food science involved in preparation of standard food products. Food selection and purchasing.

6 1306 153
FOOD AND MAN 3.0
Discussion of diverse factors which influence food selection in various cultures. World food patterns, nutritional significance of a changing food supply.

6 1306 182
NUTRITION 3.0
The nutrients in food, their functions in the human body, and diet requirements for people in various age groups.

6 1306 255
MEAL MANAGEMENT 3.0
Food preparation, nutrition and management in planning, preparing and serving family meals to utilize the resources available.
Pre-requisites: 6 1306 150, 6 1306 182.

6 1306 282
COMMUNITY NUTRITION 3.0
The application of basic nutritional knowledge to individuals and community agencies. Assessing and planning educational programs to correct nutrition problems. Field studies and group projects.
Pre-requisite: 6 1306 182.

6 1306 357
EXPERIMENTAL FOODS 3.0
Scientific principles underlying food preparation. Laboratory experiments illustrate the effect of varying ingredients and preparation procedures on the quality of food products.
Pre-requisites: X 1905 107, X 1905 109, X 1905 130, 6 1306 150.

6 1306 382
ADVANCED NUTRITION 3.0
The physiological and chemical bases for nutrient needs, mechanisms through which nutrients meet the biological needs of man. Evaluation and interpretation of research findings.
Pre-requisites: 6 1306 182, W 0401 243, X 1905 270.

6 1306 384
NUTRITION IN DEVELOPING COUNTRIES 3.0
Nutritional problems. Factors which contribute to malnutrition. Effect of under-nutrition and malnutrition. Methods of assessing nutrition status of a population and application of measures for improvement.
Pre-requisite: 6 1306 182.

6 1306 456
RESEARCH IN FOODS 3.0
 Scientific method in the design and execution of experimental food studies and in the interpretation and evaluation of results. Independent laboratory research.
Pre-requisites: 6 1306 357, 6 1301 150.

6 1306 488
DIET THERAPY 4.0
 The application of basic nutritional principles and diet to the treatment of diseases and conditions other than normal.
Pre-requisites: 6 1306 389, W 0401 250, W 0401 243, R 1905 270.

6 1306 489
EXTERNSHIP IN FOOD AND NUTRITION 3.01
 A supervised experience in selected quantity food services, agencies, clinics or organizations involved in foods and nutrition problems of the community.
Pre-requisites: 6 1306 182, 6 1307 253, 6 1308 302, 6 1306 389, 6 1306 488.

6 1307 253
QUANTITY FOOD PURCHASING AND PRODUCTION 3-4.0
 Determining needs, purchasing, storing, preparing and serving food in large volume.
Pre-requisites: 6 1306 150, 6 1306 182.

6 1307 254
FOOD SERVICE EQUIPMENT AND FACILITIES DESIGN 3.0
 Selection of equipment based on needs of the food service system. Purchasing procedures.
Pre-requisites: 6 1307 253.

6 1307 352
ORGANIZATION AND MANAGEMENT OF FOOD SERVICE SYSTEMS 3.0
 Principles of management, organizational structure, policy and decision-making. The menu in management, budgeting and cost control, sanitation and safety, personnel policies and management.
Pre-requisites: 6 1306 150, A 0501 310, 6 1307 253.

6 1307 353
SPECIALIZED FOOD PRODUCTION 3.0
 Opportunity to study selected problems in food production in various types of food service operation. Menu planning and production for special events. A study of terminology and techniques utilized in specialized areas of food production. Students will spend 90 hours per semester in a laboratory experience guided by one hour of classroom instruction per week.
Pre-requisites: 6 1307 253, 6 1307 352.



Industrial Studies

Chairperson: George A. Olsen

An interest in Design; Graphic Communication, Mechanical Drawing or Architectural Drafting; Graphic Arts; Wood, Metal or Plastics Technology; Electricity or Electronics; Energy and Power, Alternate Energy Technology, or Automotive Technology; Jewelry and Lapidary; or Historic Restoration should lead the student to the Department of Industrial Studies. The Bachelor of Science degree can be earned in order to prepare for a career in Industrial Supervision/Management, Industrial Specialization, or Teaching.

Industrial Studies and Teacher Education Majors

Required Courses

Semester Hours

Conceptual Core

0990 101	Introduction to Industry, Education and Technology.....	1
0990 102	Communication Technology.....	2
0990 103	Energy and Man.....	2
0990 104	Manufacturing Technology	2

Basic Skills

0990 210	Design Fundamentals and Problem Solving.....	3
0990 220	Graphic Communications	3
0990 230	Graphic Arts	3
0990 240	Foundation of Industry — Woods	3
0990 250	Industrial Plastics.....	3
0990 260	Metalworking Practices.....	3
0990 270	Electricity Fundamentals	3
0990 280	Energy and Power.....	3

Advanced Specialization

Select 16 s.h. of 300 and 400 level courses from within the department offerings (0990) in consultation with Program Advisor.

Concentration Programs Within the Major

SUPERVISION/MANAGEMENT SEQUENCE INDUSTRIAL STUDIES

Required Courses

Semester Hours

0990 461	Manufacturing and Production Technology	3
0506 310	The Management Process.....	3
0509 340	The Marketing Process	3
Required Intern or Coop. Experience		8

Select 9 s.h. from the following

0506 315	Organizational Behavior	3
2001 240	Industrial and Org. Psych.	

0506 316	Human Resources Mgmt.....	3
0502 200	Accounting for Non Bus. Majors.....	3
0506 431	Middle and First Line Mgmt.....	3
0509 342	Sales Concepts and Prac.	3
1701 108	Computers and Programming	3
(It is recommended that the student consult with the Program Advisor for course selection.)		

Electives (General)6

INDUSTRIAL SPECIALIZATION SEQUENCE INDUSTRIAL STUDIES

Required Courses

0990 461	Manufacturing and Production Technology	3
0506 310	The Management Process.....	3
0509 340	The Marketing Process	3
Required Intern or Coop. Experience		8
Select 9 s.h. of 400 level courses from within the department with the approval of the Program Advisor		9

Electives (General)6

PROFESSIONAL SEQUENCE TEACHER EDUCATION

Required Courses

0821 220	Philosophical Orientation to Education.....	3
2001 200	Educational Psychology	3
0839 302	Curriculum and Teaching Ind. Ed.	3
0829 410	Field Experience in Education	
or		
0829 412	Field Experience in Urban Education.....	1
0808 407	Developmental Reading I	3
0808 408	Developmental Reading II.....	3
0829 400	Teacher, School and Society.....	3
0829 401	Senior Field Experience	1
0829 402	Seminar in Professional Ed.	1
0829 411	Supervised Student Teaching I.....	8

Electives (General)3

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined above. See the department of Curriculum and Teaching.

Special Program Requirements

Vocational-Technical Teacher Education Program

This is a non-degree program that offers courses and guidance for students who want certification to teach vocational-technical subjects in secondary schools. Candidates must have a high school diploma or equivalency, experience in a trade, industrial occupation, or profession they would like to teach, and approved training in the field. General background courses, professional education and supervised in-service teaching are all included. For further information, call the department.

Courses of Instruction

7 0839 101
TECHNOLOGY AND CULTURE 3.0
A chronological study of technology and its impact on world culture. Emphasis will be placed on the influence of the western hemisphere during the last 300 years and the world of the future.

7 0839 302
PRINCIPLES AND METHODS OF TEACHING
INDUSTRIAL EDUCATION 3.0
Professional preparation for student teaching. Emphasis on planning courses of study, lesson plans, behavioral objectives, methodology and evaluation.

7 0839 303
ORGANIZING/MANAGING THE INDUSTRIAL
EDUCATION LABORATORY 3.0
A detailed exposition of the practices and procedures used to establish and operate a laboratory course in industrial education. Emphasis will be given to state regulations pertaining to shop operations. Students will be expected to develop sample organizational products that they can use when teaching.

7 0839 408
IN-SERVICE SUPERVISED TEACHING SEMINAR 8.0
For full-time regularly-employed teacher who has all degree requirements except student teaching. Prior registration required.

7 0990 101
INTRODUCTION TO INDUSTRY, EDUCATION AND
TECHNOLOGY 1.0
A professional orientation and exposure to all professional aspects of industry, education and technology designed to give students insight into the breadth of opportunities within the field.

7 0990 102
COMMUNICATIONS TECHNOLOGY 2.0
The various aspects of communication will be explored with an emphasis upon the development of understanding some of the commonalities of the various media used for the transmission and storage of information.

7 0990 103
ENERGY AND MAN 2.0
An analysis of how society utilizes and converts energy and power to meet its needs. Emphasis will be placed on the selection, conversion and application of energy and power. Application and conservation will be stressed.

7 0990 104
MANUFACTURING TECHNOLOGY 2.0
Analysis of how materials are transformed into useful products. Emphasis will be placed on the manufacturing processes required to alter raw materials into consumer goods.

7 0990 210
DESIGN FUNDAMENTALS AND PROBLEM SOLVING 3.0
Creativity, brainstorming, problem-solving and analysis — consideration application to practical problems in designing with materials.

7 0990 220
GRAPHIC COMMUNICATIONS 3.0
All aspects of graphic communication are surveyed with particular emphasis on its role in the industrial and business world.

- 7 0990 230
GRAPHIC ARTS 3.0
 Major printing processes, use of type, composition, proofing, imposition, platen press, screen process and basic lithography.
- 7 0990 240
FOUNDATIONS OF INDUSTRY — WOOD 3.0
 An overview of the wood product industries with emphasis on the study of the lumber industry, standard hand tool and common machine operation, as well as basic finishing processes.
- 7 0990 250
INDUSTRIAL PLASTICS 3.0
 Plastic industry, its operations and materials, principles, concepts, machine processing, material selection and equipment use and safety.
- 7 0990 260
METALWORKING PRACTICES 3.0
 An introductory study of concepts and processes involving metallic materials supplemented by related laboratory experiences.
- 7 0990 270
ELECTRICITY FUNDAMENTALS 3.0
 Basic concepts of electricity and their application in the world.
- 7 0990 280
ENERGY AND POWER 3.0
 A study of all sources of energy and their various power conversion systems. Exploration through direct laboratory experience.
- 7 0990 307
TECHNICAL WRITING 3.0
 Preparation of technical material for publication. Prior registration requested.
Pre-requisite: M 1501 105, CRS in similar field.
- 7 0990 311
GRAPHIC DESIGN IN PRINT MEDIA 3.0
 All aspects of graphic arts design from initial concept to finished artwork. Included are studio methods of layout, composition, classification and selection of type.
- 7 0990 312
COMMERCIAL ILLUSTRATION IN PRINT MEDIA 3.0
 An exploration of the various illustrative techniques of graphic reproduction. Assignments will be given with an eye toward use in compilation of a professional portfolio.
- 7 0990 321
INDUSTRIAL DRAFTING 3.0
 Concepts, principles, skills of contemporary industrial practices and processes.
Pre-requisites: 7 0990 220, Instructors permission.
- 7 0990 322
TECHNICAL ILLUSTRATION 3.0
 Translation of orthographic drawings into three-dimensional pictorial drawings. Engineering and publication illustration.
Pre-requisites: 7 0990 220, Instructors permission.
- 7 0990 323
ARCHITECTURAL DRAFTING — RESIDENTIAL 3.0
 The student will explore the functions of a residential architect. Emphasis will be placed on a working knowledge of building construction practices, residential planning and design, and architectural drafting techniques.
- 7 0990 331
LETTER PRESS REPRODUCTION 3.0
 Fundamentals of letterpress printing. Emphasis on historical development, layout, type styles, type cases, spacing, composition, proofing, lock-up, imposition, manual and automatic press operation.
Pre-requisite: 7 0990 130.
- 7 0990 332
SCREEN PROCESS REPRODUCTION 3.0
 Screen process printing and elementary line photography. Hand-cut films, photographic films and process.
- 7 0990 333
BLACK AND WHITE PHOTOGRAPHY 3.0
 Photographic processes of continuous tone photography. Dark-room construction. Chemicals, equipment, film exposure, contact printing, enlarging, drying and mounting photographs.
- 7 0990 341
MACHINE WOODWORKING 3.0
 Shaping wood materials by portable and machine operations maintenance, jig and fixture design.
Pre-requisite: 7 0990 240.
- 7 0990 342
CABINET CONSTRUCTION 3.0
 All types of cabinet construction. Emphasis on industrial construction procedure in fabricating cabinets.
Pre-requisite: 7 0990 341.
- 7 0990 343
HOME MAINTENANCE AND REPAIR 3.0
 A survey of practical home maintenance and basic repair methods designed to meet the needs of the layman will be studied through laboratory experiences. Emphasis will be placed upon consumer knowledge, home maintenance and repair, and simple construction techniques.
- 7 0990 351
PLASTICS MOLDING AND PROCESSING 3.0
 Manipulative processes. Injection, compression, transfer and rotational molding. Process procedure, cycle preparation and adjustment, material selection and use, machine set-up and function, sequential operation, mold use, maintenance and safety.
Pre-requisite: 7 0990 250.
- 7 0990 352
PLASTICS FORMING AND PROCESSING 3.0
 Manipulative processes. Extrusion, blow molding and thermoforming.
Pre-requisite: 7 0990 250.
- 7 0990 361
MACHINE TOOL TECHNOLOGY 3.0
 Machine metalwork layout, machining and control laboratory activities.
Pre-requisites: 7 0990 260, Instructors permission.
- 7 0990 363
METALS CASTING TECHNOLOGY 3.0
 Contemporary industrial metal casting techniques. Laboratory activities.
Pre-requisites: 7 0990 260, Instructors permission.
- 7 0990 365
COLD METAL FORMING 3.0
 A study of industrial processes as related to sheet metal fabrication, wrought metals and metalsmithing.
Pre-requisite: 7 0990 260.

- 7 0990 371
ELECTRONIC FUNDAMENTALS 3.0
Circuit conditions. Analysis of electronic concepts, theoretically and experimentally.
Pre-requisites: 7 0990 270, Instructors permission.
- 7 0990 372
ELECTRON TUBES AND SEMI CONDUCTORS 3.0
Solid state devices and electron tubes. Laboratory activities to analyze circuit conditions.
Pre-requisites: 7 0990 371, Instructors permission.
- 7 0990 373
INTRODUCTION TO LOGIC MACHINE 3.0
Computers and mentors will be studied from the orientation of their effect on industry and society and from the perspective of their construction and operation.
- 7 0990 380
BASIC AUTOMOTIVE MECHANICS 3.0
Electronic diagnosis of auto engines, associated manipulative skills. Brakes, lights, front end and suspension systems.
- 7 0990 381
AUTOMOTIVE ENGINES AND POWER TRAINS 3.0
Detailed engine operation, engine component design criteria and service procedures. The cooling system and lubrication system studied as accessory systems to the engine. Power train components such as transmissions, clutches, drive lines and differentials.
Pre-requisite: 7 0990 280, Instructors permission.
- 7 0990 382
AUTOMOTIVE FUEL AND ELECTRICAL SYSTEMS 3.0
Operation, maintenance, testing and servicing of fuel system, ignition systems and electrical systems. Emission control devices studied in conjunction with carburetion.
Pre-requisite: 7 0990 381.
- 7 0990 383
AUTOMOTIVE SUSPENSION SYSTEMS AND BRAKES 3.0
Maintenance and service of drum and disc brakes and suspension systems. Study of various suspension systems, wheel balancing techniques systems and automotive air conditioning.
Pre-requisite: 7 0990 280, Instructors permission.
- 7 0990 385
MOTORCYCLE TECHNOLOGY 3.0
Areas of study will include selection, operating and maintaining a motorcycle. Some specific lessons will include adjusting chains, tune-up, solving electrical problems and engine rebuilding.
- 7 0990 399
RECREATION CRAFTS 3.0
Crafts in recreation will be studied in relation to program development, materials, supplies and equipment, craft experiences will include wood, metal, jewelry, plastic, leather, and carving. Not a major elective.
- 7 0990 400
POWER TOOL MAINTENANCE 3.0
A presentation of accepted maintenance techniques for common industrial tools. Procedures applicable to both machine and portable tools will be dealt with. Troubleshooting, maintenance, overhaul and hands on activity. Emphasis will be given to the development of preventative maintenance systems.
Pre-requisite: Completion of required major courses or permission of instructor.
- 7 0990 405
HISTORICAL PERSPECTIVES OF AMERICAN INDUSTRIES — FIELD STUDY 3.0
A study of selected clusters of industry with an emphasis on the historical development of technology. The course is intended to contribute to the understanding of our technical society and to appeal both to majors and non-majors. The program will consist primarily of visitations to sites representative of past and contemporary American industries.
- 7 0990 406
INDEPENDENT STUDY IN INDUSTRY 1-3
Individual study problem with faculty guidance and sponsorship. Application required. Can be repeated three times.
Pre-requisite: Permission of the department.
- 7 0990 408
FIELD STUDIES OF INDUSTRY 3.0
Visitation of representative industry to study and evaluate management, labor, materials, processes and products of industry.
- 7 0990 409
COOPERATIVE INDUSTRIAL WORK EXPERIENCE 2.0
Study of the industrial world through the skills, attitudes and knowledge of working. Available summers only, by prior registration. Can be repeated three times, if experience is different or in depth. Open to all college students.
Pre-requisite: Permission of department.
- 7 0990 411
INDUSTRIAL DESIGN 3.0
Designers' approach to design products applicable to mass production techniques.
Pre-requisite: 7 0990 210.
- 7 0990 415
WORKSHOP/SEMINAR IN INDUSTRIAL EDUCATION AND TECHNOLOGY 1-3
Opportunity is afforded students to study selected current issues, concerns, and/or problems in the various fields of industry, education and technology.
- 7 0990 422
ENGINEERING GRAPHICS 3.0
The fundamentals of descriptive geometry are explored in conjunction with orthographic projection as a system of identifying three-dimensional space data for the graphical solution of applied engineering problems.
- 7 0990 423
ARCHITECTURAL DESIGN 3.0
Basic Aesthetic, functional and structural design, residential and light building structure. Environmental control, lighting, wiring, waste and utility systems.
- 7 0990 424
ENERGY CONSERVATION RESIDENTIAL 3.0
This course is directed specifically toward all students with interest in energy conservation and the environment and for current and future homeowners. Emphasis will be placed on energy sources in housing, designing energy efficient houses, heating and cooling systems and retrofitting older homes.
- 7 0990 425
ARCHITECTURE: DIRECTED STUDY 3.0
An advanced course directed toward individual design, research, and/or experimentation with residential, commercial, environmental, or energy efficient concepts in architecture. Through individual instruction the student will explore self-directed areas of study within the architectural field.
Pre-requisite: Permission of instructor.

7 0990 431
OFFSET LITHOGRAPHY 3.0
 Photo-lithographic process. Copy preparation, camera techniques, line and halftone photography, densitometry, stripping, platemaking and presswork.
Pre-requisite: 7 0990 230.

7 0990 432
ADVANCED OFFSET LITHOGRAPHY 3.0
 Advanced technical information and skills. Photographic chemistry, advanced halftone techniques, posterization, duo-tones, tri-tones, screen calibration development, color negative development, enlarging and densimetric control.
Pre-requisite: 7 0990 431.

7 0990 433
COLOR PHOTOGRAPHY 3.0
 Basic Techniques and processes of color photography. Analysis of light, color evaluation, color transparency development, color negative development, enlarging and densimetric control.
Pre-requisite: 7 0990 333.

7 0990 434
COLOR SEPARATION 3.0
 Color separation in graphic reproduction. Light, color films sensitivity, masking, color correcting, color proofing, stripping, exposure controls, densimetric measurements, screens, screen angles and press operation.
Pre-requisite: 7 0990 433.

7 0990 441
WOOD TECHNOLOGY 3.0
 Origins, developments and advances in woods and properties, manufacturing processes and occupational information.
Pre-requisite: 7 0990 240.

7 0990 442
RESIDENTIAL CONSTRUCTION 3.0
 Residential construction materials and processes.
Pre-requisite: 7 0990 342.

7 0990 451
PLASTICS PROCESSING TECHNOLOGY 3.0
 Advanced technology in injection, compression, transfer and epoxy molding. Extrusion, lamination and casting. Skill development, mold and die-making, operational procedure, processes and material application.
Pre-requisites: 7 0990 250, 7 0990 351 or 7 0990 352.

7 0990 452
PLASTICS MOLD AND FORM DESIGN, DEVELOPMENT AND CONSTRUCTION 3.0
Pre-requisites: 7 0990 250, 7 0990 260, 7 0990 240.

7 0990 453
PLASTICS: A DIRECTED STUDY 3.0
 An advanced course in the study of plastics centered on research and development with emphasis placed upon experimentation and exploration.
Pre-requisite: 7 0990 250.

7 0990 461
MANUFACTURING AND PRODUCTION TECHNOLOGY 3.0
 Mass production techniques. Market analysis, manufacturing and production control.

7 0990 462
METALS TECHNOLOGY: DIRECTED STUDIES 3.0
 An advanced course in the study of metals concentrating on research and development emphasizing experimentation. The student will be given an opportunity to explore areas of metalworking of his/her own choosing with the instructor's guidance. Contemporary metalworking processes will also be discussed.
Pre-requisite: 7 0990 260.

7 0990 466
WELDING TECHNOLOGY 3.0
 Working knowledge of arc and gas welding. Provides New Jersey welding certificate upon successful completion.
Pre-requisite: Pre-registration with instructor.

7 0990 467
ADVANCED WELDING TECHNOLOGY 3.0
 Advanced study of concepts and processes including mig and tig welding, pipe welding, sheet metal welding, special welding processes and techniques, maintenance and equipment, inspecting and testing welds, and welders' qualifications. New Jersey state welding certification required.
Pre-requisite: Pre-registration with instructor.

7 0990 471
ELECTRONIC CIRCUIT APPLICATION 3.0
 The effect of characteristic change on basic electrical circuits.
Pre-requisite: 7 0990 372.

7 0990 472
INDUSTRIAL ELECTRONIC CIRCUITS 3.0
 Complex industrial and commercial circuit application through theoretical analysis and laboratory experimentation.
Pre-requisite: 7 0990 372.

7 0990 482
FLUID POWER 3.0
 Theory and application of fluid power. Principles and laws of pneumatic and hydraulic power with frequently-used components and circuitry.
Pre-requisite: 7 0990 280.

7 0990 483
FLUIDICS 3.0
 Fluidic devices and systems. Computation, logic and control.
Pre-requisite: 7 0990 280.

7 0990 484
ALTERNATIVE ENERGY CONVERSION SYSTEMS 3.0
 Unconventional energy conversion systems that do not rely on standard uses of common fossil fuels. Typical areas of study will include oil shale, tar sands, solar energy photovoltaic conversion systems, wind energy, nuclear fission and fusion, geothermal and hydroelectric energy conversion.
Pre-requisite: 7 0990 280.

7 0990 485
WIND ENERGY CONVERSION SYSTEMS 3.0
 Theoretical and practical applications of electrical and mechanical energy systems derived from wind generating equipment and accessories. Wind machines will be examined from both the historical and contemporary perspective with respect to utilization and design characteristics of horizontal and vertical axis wind generators.

7 0990 490
JEWELRY AND LAPIDARY 3.0
 Jewelry and lapidary processes, design and materials.

7 0990 493
DIRECTED STUDY IN JEWELRY 3.0
An in-depth study of one of four areas (wrought metal, enameling, casting, lapidary) to be chosen at time of registration. The course may be taken twice for a total of six (6) credits.
Pre-requisite: 7 0990 490.

7 0990 495
INDUSTRIAL EDUCATION FOR ELEMENTARY GRADE 3.0
Developing activities and methods for including industrial education experiences designed to provide an integrative approach to elementary education.

7 0990 496
AMERICAN HERITAGE SKILLS 3.0
Home life style for the American colonies from the 1600's to the 1800's. Various skills such as spinning, working with wool, natural dyeing, candle making, rug making, soap making, quilting and food processing will be demonstrated and students will have the opportunity to develop their proficiency in these areas.

7 0990 497
HISTORICAL RESTORATION 1-6
A field experience in the restoration, moving and/or construction of historically significant structures. Students will participate in all phases of the restoration undertaken. Historic significance, architectural style and design, construction methods and materials are studied.
Pre-requisite: Pre-registration with instructor required.

7 0990 498
NATIONAL/INTERNATIONAL WORK STUDY IN TECHNOLOGY 1-6
An international field experience in technology. Students will participate in a specific construction or technical assistance project with a national or international agency or group.
Pre-requisite: Pre-registration with instructor required.

7 0991 405
COOPERATIVE EDUCATION IN INDUSTRIAL EDUCATION AND TECHNOLOGY 8.0
The cooperative education experience integrates academic study with supervised, non-professional employment outside the formal classroom environment. The co-op term is a semester off-campus during which a student, while supervised by a faculty coordinator and the office of cooperative education, is responsible for completing the terms of a predetermined learning contract.

7 0991 409
INTERNSHIP IN INDUSTRIAL EDUCATION AND TECHNOLOGY 8.0
The internship offers the student an opportunity to work as a trainee with professionals in industry, organizations and/or agencies.

7 0998 402
CURRICULUM CONSTRUCTION IN VOCATIONAL-TECHNICAL EDUCATION 3.0
Practical skills utilized in the design and construction of vocational-technical curriculums. Relationships between related and laboratory curriculum content.

7 0998 403
METHODS OF TEACHING VOCATIONAL-TECHNICAL SUBJECTS 3.0
Methods of teaching, based on vocational-technical education objectives, will include selection of subject matter, selection of text books and other source material, starting a class, preparing individual and sequential lessons, organizing demonstrations, using teaching aids, developing instructional materials, record keeping, evaluation of pupil progress.

7 0998 404
INSTRUCTIONAL MATERIAL DEVELOPMENT IN VOCATIONAL-TECHNICAL EDUCATION 3.0
Designed to assist the vocational-technical teacher to develop teaching aids of functional value to their field opportunity for the teacher to gain skill and proficiency in the use of conventional audio-visual teaching aids, and in the development of job, operation, information and assignment sheets.

7 0998 408
VOCATIONAL-TECHNICAL IN-SERVICE SUPERVISED TEACHINGS AND SEMINAR 8.0
A two-part course which covers an academic year. The first part, involves the student in a bi-weekly seminar and on-the-job supervision by the seminar instructor. The second part, provides for on-the-job supervision and individual conferences. Both parts of the course must be completed before credit is awarded.

7 0998 409
VOCATIONAL GUIDANCE 3.0
Designed to acquaint teachers in vocational-technical education with the guidance program and to assist them in the guidance functions of classroom and shop.

Linguistics

Chairperson: Milton S. Seegmiller

Because language penetrates nearly every facet of our existence, it is one of the most important of human activities. The courses in linguistics reflect this and explore the many aspects of language: its structure, its history, its relationship to society and to psychological processes, its role in shaping our attitudes, its use in literature, and many other topics.

The department offers general courses for non-majors, and specialized courses for majors, as well as a variety of courses for students in other fields. In addition, the department offers courses leading to certification in Teaching English as a Second Language (TESL).

Linguistics majors receive a Bachelor of Arts degree.

Linguistics Major

REQUIRED COURSES

	Semester Hours
1505 210 Introduction to General Linguistics	3
1505 230 Phonetics and Phonological Theory	3
1505 320 Transformational Grammar	3
1505 245 Language and Culture	3
or	
1505 330 Sociolinguistics.....	3

Electives (Departmental)

Select 21 sh from the appropriate list to be obtained from the department.....21

Second Teaching Field in Teaching English as a Second Language

Required Courses

1505 210	Introduction to General Linguistics	3
1505 220	Structure of American English.....	3
1505 330	Sociolinguistics.....	3
1505 325	Applied Linguistics.....	3
1505 245	Language and Culture	3
0821 425	Puerto Rican Children in Mainland Schools	3
	Bilingual/Bicultural Field Experience	3
1508 403	Methods and Materials of TESL.....	3
1508 430	TESL Practicum	3

Electives (Departmental)

Select 3 sh from the appropriate list to be obtained from the department.....3

Students specializing in TESL must give evidence of native or near-native competency in English, as determined by the Oral Language Proficiency Interview administered by the Linguistics Department. Candidates for certification must also take a minimum of 3 sh of a foreign language.

Certification is also available for students who already hold a bachelor's degree.

Courses of Instruction

Q 1116 101
ELEMENTARY SWAHILI I 3.0
For students who wish to start Swahili in college. All four linguistic skills — understanding, speaking, reading and writing.

Q 1116 102
ELEMENTARY SWAHILI II 3.0
For students who wish to start Swahili in college. All four linguistic skills — understanding, speaking, reading and writing.
Pre-requisite: Q 1116 101 or Permission of Instructor.

Q 1116 201
INTERMEDIATE SWAHILI I 3.0
These two courses will develop further all four language skills that the student began to acquire at the elementary level. Reading and writing Swahili will be increasingly emphasized as this second year of study proceeds.
Pre-requisite: Q 1116 102 or Permission of Instructor.

Q 1116 202
INTERMEDIATE SWAHILI II 3.0
These two courses will develop further all four language skills that the student began to acquire at the elementary level. Reading and writing Swahili will be increasingly emphasized as this second year of study proceeds.
Pre-requisite: Q 1116 201 or Permission of Instructor.

Q 1505 203
ANTHOPOLOGICAL LINGUISTICS 3.0
Linguistic systems through the use of informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages. The relationship of linguistic structure and theory to cultural systems individual student field experience. Readings and lectures.
Pre-requisites: J 2202 100 or Q 1505 210.

Q 1505 210
INTRODUCTION TO GENERAL LINGUISTICS 3.0
The nature and structure of language; the basic techniques for analyzing linguistic structures; phonological, syntactic and semantic structure of languages; language and dialects; language change; the comparative method in linguistics; human and animal communication; differences between first and second language learning.

Q 1505 220
STRUCTURE OF AMERICAN ENGLISH 3.0
The structure of American English: Phonology, morphology, syntax; geographical and social dialects; various speaking and writing styles. Traditional, structural and transformational approaches to grammar.

Q 1505 230
PHONETICS AND PHONOLOGICAL THEORY 3.0
How sounds are produced in various languages, their acoustic properties, classification and description. Workbook problems based on many languages.

Q 1505 245
LANGUAGE AND CULTURE 3.0
Language in its cultural context. Relationship of linguistic to non-linguistic variables. Ethnosemantics, componential analysis, glottochronology, linguistic relativity principle.

Q 1505 250
LANGUAGE OF PROPAGANDA 3.0
An examination of the ways in which speakers and writers manipulate language to influence our thinking, with special emphasis on how they exploit the grammatical possibilities of English. Political language, the language of advertising, innuendo, jargon, emotive language, etc.

Q 1505 255
WOMEN AND LANGUAGE 3.0
A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on women and language plus practical experience in collecting and analyzing linguistic data.

Q 1505 260
DIALECTOLOGY 3.0
Principles of dialect study. Application to American dialects. The origin and development of American dialects in historical, literary, regional, social and urban perspectives.

Q 1505 270
HISTORY OF LINGUISTICS 3.0
Linguistics from the ancient Sanskrit grammarians to the present. Present-day 'schools': Structuralism, glossematics, Prague School, London School, Tagmemics, stratificational grammar, transformational grammar.

Q 1505 280
BILINGUALISM 3.0
Compound and coordinate bilingualism; attitudes, motivation, etc. Functions of languages in multilingual settings; problems of newly-independent, multilingual nations in establishing national and standardized languages. Analysis of bilingual speech. Problems of educating minority groups in this country whose native language is not English.

Q 1505 284
THE ENGLISH LANGUAGE 3.0
 English from its Indo-European origins up to and including the eighteenth-century grammarians. The Germanic strains and the morphology of old and middle English.

Q 1505 310
STRUCTURAL GRAMMAR 3.0
 Principles of structural grammar, including its offshoot, tagmemics. Word formation and overt sentence structure of familiar and exotic languages. Segmentation and classification of meaningful elements according to specific formal criteria. Workbook problems based on many languages.

Q 1505 320
TRANSFORMATIONAL GRAMMAR 3.0
 Problems of writing grammars that generate all and only the grammatical sentences of a language. Knowledge and performance in language; underlying and surface structures; the theory and goals of linguistic description. Workbook problems from various languages, but emphasis on English.

Q 1505 325
APPLIED LINGUISTICS 3.0
 Comparison of first and second language acquisition, bilingualism, dialectology, contrastive analysis.

Q 1505 330
SOCIOLINGUISTICS 3.0
 Correlations between language varieties, their functions in particular settings, and the characteristics of their speakers. Emphasis on black English. The role of second languages within a society: Pidgins, Creoles, Lingua Francas, Diglossia, etc.

Q 1505 340
LINGUISTICS AND LITERARY ANALYSIS 3.0
 Contribution of linguistics to our understanding of the poetic process. Writing 'literary grammars' that account for our intuitions about the poetic or prose style of author, literary work or genre. Contributions of transformational grammar to the problems of style. Transformational grammar and metrics.

Q 1505 370
COMPARATIVE AND HISTORICAL LINGUISTICS 3.0
 Similarities and differences among languages and language families at one point in time and as these develop in time; reconstructing the common ancestor of related languages and determining general laws of linguistic change.

Q 1505 401
METHODS OF TEACHING FOREIGN LANGUAGE IN ELEMENTARY SCHOOL 2.0
 Procedures for teaching children in elementary school to understand a spoken foreign language, and to speak it with a correct pronunciation; exposing children to a foreign culture by means of songs, stories, realia, etc.

Q 1505 410
LINGUISTICS AND PHILOSOPHY 3.0
 The joint contribution of generative grammar and analytic philosophy toward solving problems shared by linguistics and philosophy. Theory of performatives; the problems of meaning, reference, synonymy, necessity, analyticity; the innateness hypothesis.

Q 1505 419
THE TEACHING OF FOREIGN LANGUAGES IN SECONDARY SCHOOLS 3.0
 New approaches to foreign language teaching. Techniques and procedures for teaching all four language skills. Enrichment through audio-visual and electronic aids. Collateral reading, lesson planning, and organizing of teaching materials required.

Q 1505 420
MATHEMATICAL LINGUISTICS 3.0
 Formal models of generative grammars and abstract automata. The application of set theory, symbolic logic, theory of relations, boolean algebra, etc., to the study of language.

Q 1505 430
FIELD METHODS 3.0
 Collecting linguistic data from an informant; human factors in field work; qualifications of the informant; elicitation techniques.

Q 1505 440
STRUCTURES AND ORIGINS OF THE ROMANCE LANGUAGES 3.0
 The linguistic features of the modern romance languages. Their emergence from a common ancestor, continuous differentiation, and similarities and differences 2000 years later.

Q 1505 441
COMPARATIVE STUDY OF THE EVOLUTION OF THE ROMANCE LANGUAGES 3.0
 Processes of linguistic change as established in the romance field by the use of the comparative method; the reconstruction of proto-romance; sample downtracing to the modern forms.

Q 1505 450
SELECTED TOPICS IN LINGUISTICS 3.0
 Study of special problems and topics in linguistics. Topics announced each semester.
Pre-requisite: Q 1505 210 or equivalent and permission of instructor.

Q 1505 451
SELECTED TOPICS IN LINGUISTICS 3.0
 Study of special problems and topics in linguistics. Topics announced each semester.
Pre-requisite: Q 1505 210 or equivalent and permission of instructor.

Q 1505 478
INDEPENDENT STUDY 3.0
 This course is designed (1) to allow students to explore areas of linguistics that are not covered in the normal course offerings of the department (2) to permit an in-depth analysis of a given subject beyond the scope of a regular semester course or (3) to provide advanced students with the possibility of research in areas of linguistics that are of special interest to them.
Pre-requisite: Q 1505 210, Instructors permission.

Q 1505 479
INDEPENDENT STUDY 3.0
 This course is designed (1) to allow students to explore areas of linguistics that are not covered in the normal course offerings of the department. (2) To permit an in-depth analysis of a given subject beyond the scope of a regular semester course or (3) to provide advanced students with the possibility of research in areas of linguistics that are of special interest to them.
Pre-requisite: Q 1505 210, Instructors permission.

Q 1505 480
LINGUISTICS IN EDUCATION AND SOCIETY 3.0
 The course is intended to acquaint students involved in language education of any sort with the applications and implications of linguistics for education and for understanding the functioning of language in society.

Q 1505 490
SEMINAR IN LINGUISTICS 3.0
 The linguistics approach to literary works in order to decode the language of the artist and to establish critical judgements. Limited enrollment.
Pre-requisite: Junior or Senior English majors or permission of instructor.

Q 1508 111
ENGLISH FOR SPEAKERS OF OTHER LANGUAGES I
(ESOL I) 3.0
 For students who are not native speakers of English. Language majors who have a weakness in English will be required to take ESOL I and ESOL II. ESOL I develops all four language skills, especially listening and speaking; intensive practice in pronunciation and vocabulary-building.

Q 1508 112
ENGLISH FOR SPEAKERS OF OTHER LANGUAGES II
(ESOL II) 3.0
 Continued development of listening, speaking, reading and writing, with special emphasis on writing. Each student prepares a research paper.

Q 1508 113
ESOL — ADVANCED ORAL SKILLS 3.0
 The course is designed to improve the oral language skills of non-native English speakers whose background has emphasized the skills of reading and writing. The course is intended to help develop oral proficiency in students whose oral comprehension and ability to make themselves understood is weak. The course will concentrate on the skills of speaking and listening comprehension.

Q 1508 151
INTENSIVE ESOL I 6.0
 The course aims to develop all four language skills: listening, speaking, reading, writing. This course will emphasize listening comprehension and speaking. Language laboratory is required. This class will meet twice a week for two and a half hours each session, and two hours language laboratory practice each session. The same instructor will conduct both sessions.
Pre-requisite: Comprehensive English language test (CELT) for diagnostic and placement purposes.

Q 1508 152
INTENSIVE ESOL II 3.0
 The course aims to continue the development of all four skills: listening, speaking, reading, writing, with special emphasis on reading and vocabulary development. This class will meet once a week for two and one half hours and two hours laboratory practice.
Pre-requisite: Q 1508 151 or equivalent.

Q 1508 153
INTENSIVE ESOL III 3.0
 The general aim of this course is to bring non-native speakers of English to a level of competency at which they can successfully compete in the regular college classroom with native speakers of English in the basic skills of reading and writing standard English. The emphasis will be on written skills.
Pre-requisite: N 1508 152 or equivalent.

Q 1508 154
INTENSIVE ESOL IV ADVANCED COMPOSITION 3.0
 Prepares non-native speakers of English for the writing of academic research papers, selecting and writing the topic, library research methods, documentations, preparing and revising a rough draft.
Pre-requisite: Q 1508 153.

Q 1508 403
METHODS AND MATERIAL OF TESL 3.0
 The basic audio-lingual approach, with applications and implications for specific ESL situation (in particular the large New Jersey urban population of Spanish-speaking people).

Q 1508 430
FIELD EXPERIENCE IN TEACHING ENGLISH AS A SECOND LANGUAGE 3.0
 Opportunity to teach English as a second language will be arranged for each student in the program.

Q 2001 250
PSYCHOLINGUISTICS 3.0
 The study of language through linguistic, behavioral and cognitive methods. Basic linguistic ideas for the explication of problems in grammar, cognitive structure, semantic meaning and speech production and comprehension.
Pre-requisites: T 2001 105 and Instructors permission.

Management

Chairperson, Byung Min

Students majoring in Management learn about the actual operation of a business organization and how to be a business leader. Managers must develop many kinds of skills. For example, they should have an understanding of human behavior in organizations, the ways in which computers can aid in decision-making, the relationship of business firms to government and society, and how international business firms operate.

The concentration in Management provides professional education in organization theory and behavior, the management of human resources, operations, and production and information systems. It also supplies a good background in systems design and analysis as well as in decision-making in an environment of risk and uncertainty.

The department offers a Bachelor of Science degree in Business Administration with a concentration in Management.

Business Administration Major

REQUIRED COURSES

	Semester	Hours
0502 201	Fundamentals of Accounting I	3
0502 202	Fundamentals of Accounting II	3
0501 261	Legal Environment of Business I	3
0503 270	Statistics for Business	4
0506 310	The Management Process	3
0506 315	Organizational Behavior	3

0504 321	Fundamentals of Finance	3
0509 340	The Marketing Process	3
0503 372	Management Science.....	4
0506 439	Business Policy.....	3
0503 463	Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113	Mathematics for Business I	3
1701 114	Mathematics for Business II.....	3
2204 101	Principles of Economics (Macro).....	3
2204 102	Principles of Economics (Micro).....	3

Concentration Programs Within the Major

MANAGEMENT

Required Courses

	Semester Hours
0506 316 Human Resource Management.....	3

Electives (Departmental)

Select 9 sh from the appropriate list to be obtained from the department

Courses of Instruction

E 0506 273
INTRODUCTION TO BUSINESS DATA PROCESSING 3.0
 Computers used in developing business information systems. Topics include: History of Data Processing and Information Systems, Needs of High Speed Equipment, Numbering Systems, Data Representation, Programming Concept, and Use of Business Application Program. (Alternate: Y 0701 260).

E 0506 310
THE MANAGEMENT PROCESS 3.0
 The field of management theory and practice: Classic principles and the behavioral aspects of organization life, especially motivation and interpersonal relationships, Quantitative tools as decision aids, especially in production and operations.

E 0506 315
ORGANIZATIONAL BEHAVIOR 3.0
 Major approaches to the study of organizations. Organizational systems and structure, systems of communication, power and influence, organizational conflict, coordination and control, leadership, motivation, interpersonal dynamics and change and renewal.
Pre-requisite: E 0506 310.

E 0506 316
HUMAN RESOURCE MANAGEMENT 3.0
 Motivating managerial and non-managerial employees. Effective use of human resources in the organization. The personnel function, techniques of job analysis, description and evaluation, and overall organizational development particularly with minority group members and female employees.
Pre-requisite: E 0506 310.

E 0506 317
MOTIVATION AND LEADERSHIP 3.0
 In-depth analysis of the human element. Analytical models to assist in the solution of leadership problems in an organizational context. Techniques of analysis and the psychology of self-esteem. Motivational problems facing first-line, middle, and top level managers in professional and nonprofessional work activities. The development of skills for practical application. Case studies.
Pre-requisite: E 0506 315.

E 0506 327
EMPLOYEE TRAINING 3.0
 Training as a systematic approach to develop specific human resource needs of organizations is addressed in terms of needs assessment program development, training techniques, and evaluation. Applications in business, health care, and government organizations are considered.

E 0506 332
MINORITIES IN BUSINESS 3.0
 Methods and techniques for solving problems minority group members may encounter in business. New or existing personnel in managerial and non-managerial positions in established firms. Minority group members as entrepreneurs. Relationships with other members of an organization.
Pre-requisites: E 0506 310, F 0509 340.

E 0506 335
SMALL BUSINESS MANAGEMENT 3.0
 The problems and opportunities of starting and operating a small business. Capital accumulation, adapting technologies to specialized needs, assessing local market opportunities, governmental aids, establishing working relationships with large organizations and problems of growth.
Pre-requisites: E 0506 310, F 0509 340, D 0504 321.

E 0506 336
INTERNATIONAL BUSINESS MANAGEMENT
 General theory on international trade. The mechanisms of international Balance of payments, and the procedures involved in international trade practices. The theory of comparative advantage, tariff system, international trade policy and monetary systems, balance of payment adjustment, flows of capital, development of market abroad, financing of international trade and handling of export shipment.
Pre-requisites: C 2204 102.

E 0506 363
BUSINESS AND SOCIETY 3.0
 Business as an institution in our pluralistic society. Its relationship with other societal elements such as government, academia, labor and the consumer. American business past, present and future. Strengths, weaknesses and overall contribution to society. Ecology, minority groups and the quantity and quality of economic growth.

E 0506 371
MANAGEMENT INFORMATION SYSTEMS 3.0
 Total information systems from the perspective of organizations. Information from the management point of view. Its needs, cost and value. Definition and analysis in the solution of systems problems. The computer as a tool of processing accounting, marketing and financial information for decision-making and policy-setting. Work in field, Majors only.
Pre-requisites: A 0502 202, D 0503 270, E 0506 310, Instructors permission.

E 0506 392
BUSINESS INTERNSHIP 1-3.0
 Full-time on-the-job experience in a business organization under college supervision. During this experience, the student investigates and discusses in a seminar such topics as job analysis, description, study guides, training techniques and problems.

E 0506 414
MANAGEMENT THEORIES: BEHAVIORAL APPROACHES 3.0
 Advanced analysis of the most recent developments in the behavioral sciences as a basis for practical applications in the management of organizations. Special emphasis on techniques drawn from several behavioral models including approaches such as transactional analysis and behavior modification.
Pre-requisite: E 0506 315.

E 0506 416
PROBLEMS IN HUMAN RESOURCES MANAGEMENT 3.0
 A review of the principal personnel functions with respect to current research from the behavioral sciences that impact human resources management practices. Emphasis is on the solution of typical problems and the making of sound personnel decisions based on legal cases; scientific results relative to selection, tracking, performance appraisal, manpower planning and compensation.
Pre-requisites: E 0506 316, Management Majors only.

E 0506 417
COMPENSATION MANAGEMENT 3.0
 Theory and practice in employee wage and salary administration in both business and non-business organization. Traditional job evaluation methods and survey techniques are presented with emphasis on both the economic and behavioral effects of compensation practices.
Pre-requisites: E 0506 316, Majors only.

E 0506 431
MIDDLE AND FIRST LINE MANAGEMENT 3.0
 The specific functions which middle and first line managers must perform in a production operation. Designed so that the student upon graduation can move directly into a management position. The effects of change in management philosophies and the need to acquaint the student with these changes.
Pre-requisites: E 0506 310, A 0502 202.

E 0506 433
ENTREPRENEURSHIP AND INNOVATION 3.0
 Attitudes and perspectives for effecting meaningful and profitable change. Concepts of creativity, optimum use of resources, and the impact of technological change. Anticipating needs and wants of all groups influenced by the enterprise. Examples of successful entrepreneurship, role-playing and situational exercises.
Pre-requisite: E 0506 310.

E 0506 434
COMPARATIVE MANAGEMENT SYSTEMS 3.0
 Multi-national corporations expanding into areas with new sociological and cultural constraints. Problems of management in the public sector as contrasted with the private sector. Management in newly-developed economies, and in highly-industrialized economies. Public corporations, non-profit organizations, mixed enterprise.
Pre-requisites: E 0506 310, E 0506 315.

E 0506 435
ORGANIZATIONAL DEVELOPMENT AND CHANGE 3.0
 Purpose of this course is to develop an understanding of and some skill in the process of planning, introducing, and managing change in organizations. Considerable time will be devoted to the role of the manager as a change agent. Cases and experiential exercises will be used to illustrate the various phases of the change process as well as the different change techniques available.
Pre-requisites: E 0506 310, Majors only, E 0506 315, Instructors permission.

E 0506 439
BUSINESS POLICY 3.0
 Establishing and implementing corporate goals. The firm as a collection of internal and external objectives. Information from functional areas analyzed along the lines of departmental activities. Decision-making under conditions of risk and uncertainty. Planning and strategy in a changing environment. Reconciling departmental goals and company objectives through the systems approach. The effects of corporate decisions on public policy. Case studies and simulation games.

E 0506 491
BUSINESS PROBLEMS 3.0
 The problems approach to business ownership, finances, location and layouts, purchasing, personnel and managerial controls. Can be used as an independent study course for not more than two times.
Pre-requisite: Permission of the department chairman.

E 0506 492
SELECTED TOPICS IN ADMINISTRATIVE SCIENCES 1-3.0
 Professional inquiry into the study of a selected issue, problem or trend in accounting, finance, management and organizational behavior, marketing, quantitative analysis, and general business.

E 0506 499
HONORS SEMINAR 3.0
 Opportunity for a select number of students to study management issues in a small, intimate classroom environment. Students will be given a broad range of opportunities for exploration of the literature as well as of investigation of the problems selected out for detailed study.

Marketing

Chairperson, Ralph DiPietro

Marketing tries to meet the needs of an ever changing environment by taking all necessary steps to get a product from the producer to the consumer. Research and product planning are just a few important stages a product goes through before it is made.

The Marketing concentration provides students with a knowledge of the theoretical and practical aspects of the subject. Courses in advertising, consumer behavior, sales promotion, and marketing research and strategies prepare students for entry level positions and for potential advancement in marketing and sales careers. Additional courses will expand student awareness of international opportunities, and a well chosen sequence of courses sharpens analytical, creative, and decision-making skills.

The department offers a Bachelor of Science degree in Business Administration with a Marketing concentration.

Business Administration

REQUIRED COURSES

	Semester Hours
0502 201 Fundamentals of Accounting I.....	3
0502 202 Fundamentals of Accounting II.....	3
0501 261 Legal Environment of Business I.....	3
0503 270 Statistics for Business	4
0506 310 The Management Process.....	3
0506 315 Organizational Behavior.....	3
0504 321 Fundamentals of Finance	3
0509 340 The Marketing Process	3
0503 372 Management Science.....	4
0506 439 Business Policy.....	3
0503 463 Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113 Mathematics for Business I.....	3
1701 114 Mathematics for Business II.....	3
2204 101 Principles of Economics (Macro).....	3
2204 102 Principles of Economics (Micro).....	3

Concentration Within the Major

MARKETING

Required Courses

	Semester Hours
0509 446 Marketing Strategies.....	3
0509 442 Marketing Research.....	3

Electives (Departmental)

Select 6 sh from the appropriate list to be obtained from the department.....6

F 0509 342

SALES CONCEPTS AND PRACTICES

3.0

The total package sales concept in which the salesperson assists his accounts (wholesale, retail, industrial) in the preparation of sales and profit plans, inventory control, advertising and promotion, financial counseling, product mix, legal limitations, training personnel, and branch expansion. Selling strategies, trading center analysis, franchise and product presentation, price discounting and credit and collections.

Pre-requisite: F 0509 340.

F 0509 344

ADVERTISING MEDIA

3.0

An opportunity to study advertising media such as newspapers, magazines, radio, television and direct mail, and to evaluate their effectiveness in terms of campaigns.

Pre-requisite: F 0509 340.

F 0509 349

INTERNATIONAL MARKETING

3.0

The importance of international marketing for the U.S. Environmental conditions and controlling factors. Development of foreign markets and selection of appropriate organizational means. Introduction into the mechanics of import and export. Manufacture abroad. Multinational companies.

Pre-requisite: F 0509 340.

F 0509 442

MARKETING RESEARCH

3.0

A broad management perspective on market research methodology. A systems approach, collection and analysis of facts, opinions, forecasts, etc., for determining marketing strategies. Research techniques and designs, tabulation and report presentation.

Pre-requisites: F 0509 340, D 0503 270.

F 0509 443

INDUSTRIAL MARKETING

3.0

A study of the various problems faced by organizations who market goods and services consumed by other organizations. A managerial focus based on an understanding of organizational buying activities is stressed.

Pre-requisites: F 0509 340 Majors only, F 0509 341 Instructors permission.

F 0509 446

MARKETING STRATEGIES

3.0

Relationship of marketing to the activity of the firm from theoretical and practical perspectives. The variables of marketing decision-making. Sophisticated techniques for problem-solving. Case studies help to develop an analytical posture in Marketing planning.

Pre-requisite: F 0509 442. To be taken in Senior Year.

F 0509 464

LEGAL PROBLEMS OF THE MARKETING PROCESS

3.0

The historic and social relationships of law and marketing. The legal framework including (1) the relationship of administrative agencies to enforcement of legislative policy, (2) governmental regulation of anti-competitive business behavior, (3) regulations protecting consumers and (4) regulations protecting the use of intellectual property. Legal problems of international marketing and distribution.

Pre-requisites: F 0509 340, 0509 261.

F 0509 499

CURRENT TOPICS IN MARKETING

3.0

Honors, seminar, current topics in marketing. Problems and opportunities in marketing management.

Pre-requisites: F 0509 340, 0509 442 (or concurrently), Instructors Permission.

Courses of Instruction

F 0509 340

THE MARKETING PROCESS

3.0

The role of marketing. Significance of marketing decisions to overall performance. Behavioral aspects of marketing, the impact of consumer behavior in purchase decisions, special problems of industrial marketing, the consumer movement and formal and informal societal constraints on marketing practices.

F 0509 341

CONSUMER MOTIVATION

3.0

Industrial and consumer buying behavior. The user of consumer products. Behavioral science findings, marketing research techniques and consumer attitudes. Socio-economic and demographic variables.

Pre-requisite: F 0509 340.

Second Teaching Field in Mathematics

Those majoring in another field who wish to teach mathematics as a second field must take an approved 24 sh program in mathematics as well as their major field requirements.

Mathematics and Computer Science

Chairperson: Kenneth C. Wolff

Mathematics and computer science are essential areas of knowledge in the modern technological world. In order to equip students with proper skills, the department offers a major and a minor program in mathematics and a major and a minor program in computer science. Both major programs lead to a Bachelor of Science degree. With the proper choice of elective courses, a student may prepare for graduate study or for work in a variety of fields such as computer science, statistics, actuarial science and management science. There is an honors program in mathematics for qualified students.

It is possible to pursue a dual major program, mathematics and computer science. This can be arranged with the advice of the chairperson. A student who is interested in advanced placement or who has questions about qualifications for placement in Calculus I should contact the chairperson for the proper information.

Mathematics Major

REQUIRED COURSES

1701 122	Calculus I	4
1701 221	Calculus II	4
1701 222	Calculus III	4
1701 335	Elements of Linear Algebra	3
1701 340	Probability	3

Collateral Courses

0701 183	Foundations of Computer Science I	3
1902 101, 102	General Physics I, II	8

Electives

Select 18 sh from the appropriate list to be obtained from the department18

Mathematics Minor

Students may earn a minor in the field of mathematics by completing an approved 18 sh program in mathematics. See the department for specific requirements.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching. The specific mathematics courses needed for certification should be obtained from the department.

Computer Science Major

REQUIRED COURSES

0701 183	Foundations of Computer Science I	3
0701 184	Foundations of Computer Science II	3
0701 261	Computer Applications I: Data Processing	3
0701 280	Assembly Language and Machine Organization I	3
0701 281	Assembly Language and Machine Organization II	3
1701 285	Discrete Math Structures	3

Collateral Courses

1701 122, 221, 222	Calculus I, II, III	4 and
--------------------	---------------------------	----------

One of these five sequences

1.) 1902 101/2	General Physics I, II	4 ea.
2.) 1905 120/1	General Chemistry I, II	4 ea.

3.) Select two courses

0401 121	Plant Kingdom	4 ea.
0401 130	Invertebrate Zoology	4 ea.
0401 131	Vertebrate Zoology	4 ea.
0401 140	Biology of the Cell	4 ea.
0401 212	Genetics for the Layman	3 ea.
4.) 0502 201/2	Fundamentals of Accounting I, II	3 ea.
0506 310	The Management Process	3 ea.
5.) 2204 101/2	Principles of Economics: Macro, Micro	3 ea.
0506 310	The Management Process	3 ea.

Note: The department recommends that students consider taking a second and possibly third sequence in collateral courses, as well as advanced writing skills — technical and scientific. Independent study in advanced areas is available. See the department chairperson for information.

Electives

Select 18 sh from the appropriate list to be obtained from the department18

Computer Science Minor

Students may earn a minor in Computer Science by satisfactorily completing an 18 sh program from the following list of courses. At least 9 credits (3 courses) must be taken at Montclair State College. At least 6 credits (2 courses) must be taken at the 300 level or higher.

Required Courses

	Semester	Hours
0701 183	Foundations of Computer Science I	3
0701 184	Foundations of Computer Science II	3
0701 261	Computer Applications I, Data Processing	3
0701 280	Assembly Language and Machine Organization I	3
0701 281	Assembly Language and Machine Organization II	3
0701 381	Computer Applications II — File Processing	3
0701 382	Computer Applications III, Systems Analysis	

	(formerly 480)	3
0701 383	Data Structures	3
0701 385	Microcomputers	3
0701 386	Computer Circuits and Interfaces	3
0701 481	Operating Systems	3
0701 483	Computer Applications IV, Data Bases	3
0701 484	Fundamentals of Programming Languages	3
0701 485	Compiler Construction	3

Courses of Instruction

Y 0701 107
COMPUTERS AND SOCIETY 3.0
The impact of the digital computer on modern society. The effect of information processing in the social and political spheres and the relation of computer information processing to human thought. Not for math/science majors.

Y 0701 108
COMPUTERS AND PROGRAMMING 3.0
Develops programming competence in the basic language and the use of stored library programs. Problems will be primarily of a non-mathematical nature. Not for math/science majors.

Y 0701 161
INTRODUCTION TO COMPUTING 1.0
Introduces the student to electronic computers and computer programming in basic language.

Y 0701 183
FOUNDATIONS OF COMPUTER SCIENCE I 3.0
Basic theory of digital computers. Syntax and semantics of a programming language. Algorithms: logic, design, testing and documentation. Majors only.

Y 0701 184
FOUNDATIONS OF COMPUTER SCIENCE II 3.0
Continuation of Y 1701 183. Algorithm development involving user functions; subroutines, recursions, structures file manipulation. Majors only.
Pre-requisite: Y 0701 183

Y 0701 261
COMPUTER APPLICATIONS I: DATA PROCESSING 3.0
Applications in accounts receivable, payroll and inventory language Cobol. Card, tape, and disc files.
Pre-requisite: Y 0701 183.

Y 0701 273
INTRO BUSINESS DATA PROCESSING 3.0
Emphasis is on the business application of a modern computer using Cobol. May not be taken for credit by students who have received credit for Y 0701 183 or equivalent. Not for Math/Science majors.

Y 0701 280
ASSEMBLY LANGUAGE AND MACHINE ORGANIZATION I 3.0
Computer structures, introduction to assembler language, subroutine linkage, conversions, input/output instructions.
Pre-requisites: Y 0701 184, Y 0701 261.

Y 0701 281
ASSEMBLY LANGUAGE AND MACHINE ORGANIZATION II 3.0
This course is intended to give the student an indepth understanding of the architecture and design of a modern computer. Topics: micro processors and input/output systems and moving on to move specialized topics involving stack, parallel, overlap and pipeline processing.
Pre-requisite: Y 0701 280.

Y 0701 285
DISCRETE MATH STRUCTURES 3.0
The structures include sets, graphs, diagrams, trees, networks, lattices, matrices, semigroups and groups. Many practical business and scientific problems can be posed and solved by the use of these structures. Student may take 0701 285, not both.
Pre-requisite: Y 0701 184 Majors Only.

Y 0701 381
COMPUTER APPLICATIONS II — FILE PROCESSING 3.0
Advanced techniques in data processing including modular programming, debugging language, table handling, subscription and indexing, variable length records and tables, declarations and linkages, report generation, tape and disc file processing. Searching, sorting, updating and retrieving from files. Sequential, indexed sequential and direct-access file organization. The programming language will be Cobol.
Pre-requisite: Y 1701 261.

Y 0701 382
COMPUTER APPLICATIONS III, SYSTEMS ANALYSIS 3.0
A major project includes forms design, sequential files, files, merge, sort, and editing programs.
Pre-requisite: Y 0701 261.

Y 0701 383
DATA STRUCTURES 3.0
Data structures including linear lists, strings, trees, chains, paging, data base design, storage systems, and structures.
Pre-requisites: Y 0701 261, Y 0701 184.

Y 0701 385
MICROCOMPUTERS 3.0
Introduction to chip technology, microprocessors, microcomputers, architecture, instruction sets and programming of microcomputers.
Pre-requisite: Y 0701 184.

Y 0701 481
OPERATING SYSTEMS 3.0
System architecture, DOS, OS systems, multi-programming, virtual storage.
Pre-requisite: Y 0701 280 and Y 0701 383.

Y 0701 483
COMPUTER APPLICATIONS IV DATA BASES 3.0
A comprehensive collection of data base organizations and design tools. File organizations and evaluations, database structures, schemata and implementations. Database security, operations and management.
Pre-requisite: Y 1701 381.

Y 0701 484
FUNDAMENTALS OF PROGRAMMING LANGUAGES 3.0
Syntax and semantics of programming languages. Principles of compilers and compiler constructions, including object code generation.
Pre-requisites: Y 0701 383, Y 0701 280.

Y 0701 485
COMPILER CONSTRUCTION 3.0
 Introduction to the concepts and techniques used in the description of programming languages and in the construction of compilers.

Y 0701 490
COOPERATIVE EDUCATION IN COMPUTER SCIENCE 3.0
 The study of theoretical ideas of computer science combined with their practical applications in a real life environment. The co-op experience is a semester working off campus under the guidance of a company supervisor, and a faculty supervisor. Only 3 of the 8 credits may be used to fulfill the major requirement.
Pre-requisite: Approval of faculty coordinator and co-op office.

Y 0701 497
UNDERGRADUATE RESEARCH IN COMPUTER SCIENCE I 1-3
 Individual research in areas of computer science agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses: 0701 497, 498; 1701 497, 498.

Y 0701 498
UNDERGRADUATE RESEARCH IN COMPUTER SCIENCE II 1-3
 Individual research in areas of computer science agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses: 0701 497, 498; 1701 497, 498.

Y 1701 050
DEVELOPMENTAL MATH I — COMPUTATION 3.0
 Fundamental operations of integers, fractions, decimals. Estimation interpretation of graphs and charts. Problem solving. Use of hand-held calculators. Credits not useable toward graduation.

Y 1701 051
DEVELOPMENTAL MATH II — ALGEBRA 3.0
 Basic elementary algebra course. Includes fundamental algebraic processes, linear and quadratic equations, graphing and applications. Credits not useable toward graduation.

Y 1701 101
INTRODUCTION TO MODERN MATH I 3.0
 For students with a major interest in fields other than mathematics and science. Emphasis is on basic concepts rather than on formal manipulative skills. Topics include sets, logic, finite mathematics, systems of numeration, and properties of sets of numbers. Not for math-science majors.

Y 1701 102
INTRODUCTION TO MODERN MATH II 3.0
 Application of basic concepts to topics in algebra, geometry, statistics, probability, and elementary calculus. Not for math-science majors.

Y 1701 103
THE DEVELOPMENT OF MATHEMATICS 3.0
 The growth and development of mathematics from ancient to modern times. Contributions of the great mathematicians. Not for math-science majors.

Y 1701 109
STATISTICS 3.0
 Introduction to the use and misuse of statistics. Topics include analysis and presentation of data, variability and uncertainty in data, techniques of statistical inference and decision-making. Not for mathematics majors.

Y 1701 110
INTRODUCTION TO ALGEBRA AND ANALYSIS 3.0
 Basic Material needed for the study of Math 113-114. Topics include sets, relations, functions, development of number systems and algebraic operations. If a student has received high school credit for intermediate algebra, he may not receive degree credit for Math 110. Not for math/science majors.

Y 1701 113
MATHEMATICS FOR BUSINESS I: LINEAR ALGEBRA 3.0
 Matrices, Linear programming, Probability and Statistics.
Pre-requisite: Y 1701 110, or equivalent.

Y 1701 114
MATHEMATICS FOR BUSINESS II: CALCULUS 3.0
 The general aim of this course is to introduce the students to the basic skills of differentiation, integration, maxima-maxima problems and several of the other applications of calculus, including modeling, especially models in business and economics.

Y 1701 115
INTRODUCTION TO MATHEMATICAL ANALYSIS 3.0
 Elements of sets, relations and functions, circular functions, plane analytic geometry including conic sections, logarithmic and exponential functions.
Pre-requisite: 3 years of high school math or equivalent.

Y 1701 116
CALCULUS A 4.0
 Differentiation and integration of functions, including trigonometric functions. Applications to biology and geoscience. Not for math, chemistry or physics majors.
Pre-requisite: Y 1701 115.

Y 1701 117
MATHEMATICS FOR THE LIFE SCIENCES I 3.0
 Descriptive statistics, counting techniques, probability distributions, biological models, introduction to hypothesis testing. Applications include genetics, ecology, bio-chemistry, experimental design. Not for math/science majors.

Y 1701 118
MATHEMATICS FOR THE LIFE SCIENCES II 3.0
 Mathematical models. Population biology, diversity in populations, population genetics, contingency tables, regression analysis, mathematical ecology, topics in demography, tests of biological models. Not for math/science majors.
Pre-requisite: Y 1701 117.

Y 1701 122
CALCULUS I 4.0
 Limits continuity derivatives and differentiation. Anti-differentiation. Maxima, minima, and extreme considerations. Differentials and related rates.
Pre-requisite: Y 1701 115.

Y 1701 195
REASONING AND PROBLEM ANALYSIS FOR PRE-LAW AND PARA-LEGAL STUDENTS 3.0
 Mathematical problem analysis, reasoning and proof applicable and transferable to law school study, including analysis of legal decision making.
Pre-requisite: Working knowledge of high school algebra and geometry.

Y 1701 196

**THE LEGAL ENVIRONMENT OF COMPUTER AND
COMPUTER PROGRAMMING** 3.0

To provide knowledge of the legal environment that surrounds the computer science industry and consider the legal consequences of actions by data processing personnel and computer programmers.
Pre-requisite: Working knowledge of computers and/or computer programming.

Y 1701 210

STATISTICAL METHODS 4.0

Modern statistical methods and decision making. Topics covered include descriptive statistics, probability theory, estimation, sampling, hypothesis testing, non-parametric methods, regression and time series analysis.

Pre-requisite: Y 1701 114.

Y 1701 221

CALCULUS II 4.0

Riemann integral applications, transcendental functions, techniques of integration, polar coordinates, improper integrals, L'Hospital's rule.

Pre-requisite: Y 1701 122.

Y 1701 222

CALCULUS III 4.0

Partial differentiation, multiple integration, infinite series, differential equations, vector calculus.

Pre-requisite: Y 1701 221 CRS in similar field.

Y 1701 270

STATISTICS FOR BUSINESS 4.0

Modern statistical methods and decision making. Topics covered include descriptive statistics, probability theory, estimation, sampling, hypothesis testing, non-parametric methods, regression and time series analysis. Not for Math/Science majors or students who have taken 0503 270.

Y 1701 289

INTRODUCTION TO APL 3.0

Develops programming competence in the APL language. APL is an acronym for a programming language. Applications in the field of sciences, Mathematics, and business. Free elective credit only.

Pre-requisite: Y 1701 161.

Y 1701 335

ELEMENTS OF LINEAR ALGEBRA 3.0

Vectors, vector spaces, systems of linear equations, matrices, determinants and linear transformations.

Pre-requisites: Y 1701 222.

Y 1701 340

PROBABILITY 3.0

Chance and variability, elements of combinatorics, Bayes' theorem, random variables, binomial, poisson and normal distributions, applications to statistics.

Pre-requisite: Y 1701 221.

Y 1701 350

COLLEGE GEOMETRY 3.0

Study of euclidean and other geometries from an axiomatic point of view.

Pre-requisites: Y 1701 221.

Y 1701 398

VECTOR CALCULUS 3.0

Topics include the algebra and the differential and integral include gradients, divergence and curl of a vector field, theorem and other integral theorems together with applications drawn from the physical sciences.

Pre-requisite: Y 1701 222.

Y 1701 403

TECHNIQUES AND APPLICATIONS OF STATISTICS 3.0

Statistical techniques for the social and behavioral sciences including estimation, tests of hypothesis, non-parametric statistics, regression and correlation. May not be taken for credit by mathematical majors.

Y 1701 420

DIFFERENTIAL EQUATIONS 3.0

Linear differential equations, exact and total differential equations, simultaneous equations, numerical approximations, series solutions.

Pre-requisite: Y 1701 222.

Y 1701 423

INTRODUCTION TO COMPLEX VARIABLES 3.0

This course is a study of the arithmetic and algebra of complex numbers, and an introduction to the differentiation and integration of complex functions. Topics include rectangular and polar form of complex numbers, algebra of complex numbers, differentiation, Cauchy-Riemann equations, and contour integrals.

Pre-requisite: Y 1701 222.

Y 1701 425

ADVANCED CALCULUS I 3.0

Properties of the real number system, limits, continuous functions, intermediate value theorem, derivative, mean value theorem, Riemann integral.

Pre-requisite: Y 1701 222.

Y 1701 426

ADVANCED CALCULUS II 3.0

Functions of several variables, partial derivatives, Green's theorem, Stoke's theorem, divergence theorem, implicit function theorem, inverse function theorem, infinite series, uniform convergence.

Pre-requisite: Y 1701 425.

Y 1701 428

INTRODUCTION TO TOPOLOGY 3.0

Topological spaces, metric spaces, continuity compactness, connectedness, and separability properties. Topological generalizations of basic continuity theorems of advanced calculus.

Pre-requisite: Y 1701 425.

Y 1701 431

FOUNDATIONS OF MODERN ALGEBRA 3.0

Fundamental concepts of algebra including groups, rings, integral domains and fields, with important examples.

Pre-requisite: Y 1701 335.

Y 1701 433

THEORY OF NUMBERS 3.0

Properties of integers, congruences, quadratic reciprocity law, primitive roots, diophantine equations, continued fractions, algebraic numbers, lattice points and partitions.

Pre-requisite: Y 1701 221.

Y 1701 436

ELEMENTS OF LOGIC 3.0

Deduction, propositional functions, quantifiers, consistency, decision problems and Goedel's theorem.

Pre-requisite: Y 1701 221.

Y 1701 440

STATISTICAL METHODS FOR RESEARCH 3.0

Applications of statistical methods. Estimation, hypothesis testing, inference, enumeration data, correlation, regression, analysis of variance, nonparametric methods and elementary experimental design.

Pre-requisite: Y 1701 340.

Y 1701 443
INTRODUCTION TO MATHEMATICAL STATISTICS 3.0
 Develops statistical methods from probability theory. Topics discrete and continuous probability distributions, estimation, inference and hypothesis testing.
Prerequisite: Y 1701 440.

Y 1701 450
FOUNDATIONS OF GEOMETRY 3.0
 Groups of transformations, an introduction to projective geometry.
Pre-requisite: Y 1701 221.

Y 1701 460
INTRODUCTION TO APPLIED MATHEMATICS 3.0
 Solutions to problems in the real world. Vectors, matrices, series, periodic motion, theory of relativity and fourier series.
Pre-requisite: Y 1701 222.

Y 1701 463
INTRODUCTION TO NUMERICAL ANALYSIS 3.0
 Finite differences, approximation theory, linear and non-linear equations, error analysis.
Pre-requisites: Y 0701 183, Y 1701 335.

Y 1701 464
OPERATIONS RESEARCH I 3.0
 Linear programming, transportation problem, assignment problem, duality, sensitivity analysis, network flows, dynamic programming, nonlinear programming, integer programming.
Pre-requisite: Y 1701 335.

Y 1701 465
OPERATIONS RESEARCH II 3.0
 Game theory, queuing models, inventory models, markov processes, reliability theory and applications.
Pre-requisites: Y 1701 464, Y 1701 340.

Y 1701 470
TEACHING OF MATHEMATICS 3.0
 Selection, organization and presentation of elementary and secondary mathematics. Classroom activities, lesson planning, motivation, evaluation, multi-sensory aids and principles of learning.
Pre-requisite: Admission to teacher education program.

Y 1701 471
SELECTED TOPICS IN MODERN MATHEMATICS 3.0
 Professionalized view of junior and senior high school mathematics topics. Functions, real and complex numbers, analytic geometry, absolute value and inequalities, sets and logic, flow charting, linear programming.
Pre-requisite: Admission to teacher education program.

Y 1701 475
HISTORY OF MATHEMATICS 3.0
 Histories of geometry, number theory, algebra, calculus and infinite processes.
Pre-requisite: Y 1701 221.

Y 1701 490
HONORS SEMINAR 3.0
 This course will concentrate on subject matter not usually covered within other standard mathematics courses.
Pre-requisites: S 1701 222, Instructor's permission, Y 1701 221.

Y 1701 495
SEMINAR IN MATHEMATICS I 1-3.0
 Students may do independent work in advanced topics under the supervision of an instructor.

Y 1701 496
SEMINAR IN MATHEMATICS II 1-3.0
 Students may do independent work in advanced topics under the supervision of an instructor.

Y 1701 497
UNDERGRADUATE RESEARCH IN MATHEMATICS I 1-3.0
 Individual research in a mathematical area agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses 0701 497, 498, 1701 497, 498.
Pre-requisites: Y 1701 222, Y 1701 335, Majors only, Instructor's permission.

Y 1701 498
UNDERGRADUATE RESEARCH IN MATHEMATICS II 1-3.0
 Individual research in a mathematical area agreed upon by the student and instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses 0701 497, 498, 1701 497, 498.
Pre-requisites: Y 1701 222, Y 1701 335, Majors only, Instructor's permission.

Music

Chairperson: Jack Sacher

The Department of Music stresses performance skills, breadth of musical understanding and work in the liberal arts. The department is accredited by both the National Association of Schools of Music and the National Association for Music Therapy. Two degrees are offered, the Bachelor of Music and the Bachelor of Arts.

Concentrations available within the Bachelor of Music program are Performance and Theory/Composition. Concentrations within the Bachelor of Arts program are Music Education, Music Therapy and Music History.

Entrance Requirements

General

Those who wish to major in music must have an interview, and an audition on a primary instrument (including voice). Prospective music majors should be able to show musicality, primary and secondary performing skills and knowledge of elementary music theory. It is important to have studied music seriously throughout high school. Participation in choral and/or instrumental groups and piano study are highly recommended for all applicants.

Applied Music

SECONDARY INSTRUMENTS

- All non-keyboard majors must study secondary piano or pass qualifying examinations in piano.
- Placement in any other secondary instruments is by audition.
- Admission to secondary voice study is upon demonstration of ability to sing an art song with good intonation and of a voice with some promise of development.

PRIMARY INSTRUMENTS

PIANO

- All major scales and harmonic minor scales, four octaves, hands together.
- I, IV and V triads and their inversions in all major and minor keys.
- Sightreading of a choral harmonization by J.S. Bach
- Three compositions, at least one from memory: one each by J.S. Bach (an invention or a Prelude and Fugue or a Suite), Haydn or Mozart or Beethoven (a sonata), and one by a composer from the nineteenth or twentieth centuries.

ORGAN

- All major scales and harmonic minor scales, four octaves, hands together.
- I, IV and V triads and their inversions in all major and minor keys.
- Two compositions for piano: one by J.S. Bach (an invention) and a work of the student's choice by such composers as Beethoven, Chopin, Debussy, et al.
- At least one year of organ study. Suggested materials: Gleason, **Method for Organ**; Dickinson, **The Art of Organ Playing**; Carl, **Master Studies for Organ**.
- Sightreading of a hymn and a trio.
- Three works from memory: a Prelude and Fugue by J.S. Bach, an adagio movement by any composer and a contemporary composition of the student's choice.

VOICE

- Evidence of a pleasing voice with good tonal placement, breath control and flexibility.
- Previous study preferred but not required.
- Sightreading of folk tunes and hymns.
- Two songs (one from memory) demonstrating musical sensitivity, good intonation and clear diction.
- Suggested materials:
Soprano — Brahms, **Wiegenlied**; Quilter (arr.), **Drink To Me Only With Thine Eyes**
Contralto — Burleigh (arr.), **Deep River**; Giordani, **Caro mio ben**.
Tenor — Barber, **The Daisies**; Purcell, **Passing By**.
Bass-Baritone — Franz, **Dedication**; Quilter (arr.), **Drink To Me Only With Thine Eyes**.
- Any selection of more difficult nature from standard operatic, oratorio or western art song repertoire.

STRINGS

All major and minor scales, two and three octaves.

Violin

- Study materials such as those by Mazas, Wohlfahrt, Kreutzer.
- A solo sonata from the Baroque era.
- A concerto by Viotti, Vivaldi, Accolay, etc.

Viola

- Study materials such as Wohlfahrt's **Foundation Studies**, Books 1 and 2.

- A solo sonata from the Baroque Era.

Violoncello

- Study materials such as those by Lee, Dotzauer or Duport.
- Goltermann, **Concerto No. 4**; J.S. Bach, **Arioso** (or work of equivalent difficulty and style).

Double Bass

- Study materials such as Simandl, Book 1
- J.S. Bach, **Minuet in G**; Corelli, **Sarabande** (or work of equivalent difficulty and style).

Guitar

- Milan, **Pavanes** (any three).
- DeVisee, **Suite in D**.
- Villa Lobos, **Preludes Nos. 1 and 4**.

Harp

- Any three of the following or the equivalent in difficulty and style): Bochs, **Etudes**; Pozzoli, **Etudes**; Salzedo, **Etudes Modernes**; sonatas by Naderman or Krumpholtz; Grandjany, **Two French Folksongs**; Pratt, **Little Fountain**; Rénie, **Album Leaves**.

WOODWINDS

Chromatic and all major scales, full range of instrument.

Sightreading of band or orchestral music, Class A or B.

Flute

- Study materials such as those by Boehm and Anderson.
- An unaccompanied solo by a Baroque composer.

Oboe

- Study materials such as Ferling's **Forty Etudes**.
- A standard solo sonata.

Clarinet

- Study materials such as those by Klose, Baermann, Lazarus or Rose.
- A standard solo by Brahms, Spohr, Saint-Saens, etc.

Bassoon

- Study materials from Weissenborn's **Method**, pp. 10-38.
- Mozart, **Concerto in B-flat**, K. 191.

Saxophone

- Study materials such as those by Karg-Elert, Massis, Traxler.
- A standard solo work.

BRASS

All major scales, two octaves where possible.

Sightreading of band and orchestra music of Class A or B.

Trumpet/Cornet

- Study materials such as Arban's **Characteristic Studies**
- Haydn, **Concerto for Trumpet** (any movement).

French Horn

- Franz, **Method for Horn**.
- Mozart, any concerto movement.

Trombone/Baritone horn (Euphonium)

- Tyrell, **Forty Progressive Studies**.
- Blazevich, **Concerto Sketch No. 5**.

Tuba

- Arban, **Method** (bass clef; played one octave lower).
- Bach-Bell, **Air and Bourée** (or work of equivalent style and difficulty).

PERCUSSION

Sightreading of orchestral excerpts.

Snare Drum: selected technical rudiments.

Tympani:

- Tuning.
- Execution of single-stroke roll.

Mallet instruments

- All major and minor scales.
- I, IV, V arpeggios.
- a solo piece of the student's choice.

Final Admission to Program

Theory/Composition

Final admission in junior year; in addition to full audition requirements, candidates must submit a portfolio of compositions and/or analytical sketches before completion of sophomore year.

Music Therapy

Final admission in junior year; in addition to full audition requirements, an interview and evaluation of all credentials (including reports of clinical experience) must be completed before the end of sophomore year.

Performance

Provisional acceptance is determined by an Applied Music jury at the end of the freshman year unless a postponement is requested to the middle of the sophomore year by the major teacher. Full admission is delayed until completion of a sophomore recital and demonstration of a solid grasp of the technical aspects of the performing medium and genuine musicality and sensitivity.

Music History

Candidates must demonstrate excellence in writing and speaking. In addition to proven interest in music and demonstration of performance skills, candidates must maintain an excellent record in traditional academic disciplines.

Music Education

Final admission is granted only after an interview and review of credentials toward the end of the sophomore year.

Comprehensive Examination

At the end of the sophomore year, all students must demonstrate comprehensive musicianship in the performing primary, functional keyboard skills, theoretical and practical skills, secondary vocal skills and other materials germane to the student's concentration.

This examination is a basic part of all credentials submitted for junior status or for full admission to any of the degree programs.

Applied Music Requirements for Graduation

All music students must study with members of the college faculty.

Although the amount and extent of study in applied music varies with concentration, each music major is required to complete two applied music sequences, one in the performing skill on which his acceptance to the department was based and the other in a secondary medium. Either the primary or the secondary must be a keyboard instrument.

Students majoring in performance will present a recital before the end of the sophomore year and another in the senior year. Students majoring in music education will present a recital in the senior year.

Students are expected to accompany at a level of their ability as designated by their teachers and to participate actively in the musical life of the college and community.

All students, with the exception of first-semester freshmen, are expected to perform during a Wednesday noon recital program at least once each semester of primary study.

Secondary instruction beyond the minimum requirements is available when schedules and other considerations allow, usually on a special fee basis.

Student Recital/ Seminar Requirements for Graduation

Twice each week the Department of Music sponsors mid-day performances by students and lecture/recitals by faculty and guest artists. Every music major must register for this **every semester** of residence at Montclair State College under the course H 1005:0029 STUDENT RECITAL/SEMINAR, on a pass/fail basis.

Ensemble Requirements for Graduation

The ensemble policy is based on the principle that all students must perform in ensemble(s) every semester of their attendance at Montclair State College in order to assure the broadest possible experience in important ensemble repertoire and to assure that these ensembles have the needed instrumentation for successful performance. Although minimum requirements vary with the concentration, this principle is the over-riding one.

Students may be assigned by the Department Chairman to an ensemble in accordance with the needs of the department, regardless of the satisfaction by the student of his minimum requirements.

Vocalists who wish to participate in more than one vocal ensemble in a given semester must have the written permission of the primary teacher.

Where admission to a chamber ensemble is by audition and a student fails to gain admission, additional performance in a large ensemble may, with the Chairman's consent, be substituted.

MUSIC EDUCATION: majors in voice, keyboard or guitar

- 6 semesters of choir
- 2 semesters of laboratory band
- 2 semesters of laboratory orchestra
- 2 semesters of chamber ensemble

MUSIC EDUCATION: majors in stringed instruments (other than guitar)

- 6 semesters of orchestra
- 4 semesters of choir
- 2 semesters of chamber ensemble

MUSIC EDUCATION: majors in brass, woodwinds, percussion

- 6 semesters of band
- 4 semesters of choir
- 2 semesters of chamber ensemble

PERFORMANCE: majors in voice

- 8 semesters of choir
- 4 semesters of chamber ensemble
- 4 elective semesters

PERFORMANCE: majors in guitar

- 8 semesters of chamber ensemble
- 4 semesters of choir
- 4 elective semesters

PERFORMANCE: majors in stringed instruments (other than guitar)

- 8 semesters of orchestra
- 4 semesters of chamber ensemble
- 4 elective semesters

PERFORMANCE: majors in brass, woodwinds, percussion

8 semesters of band
2 semesters of choir
3 semesters of chamber ensemble
3 elective semesters

PERFORMANCE: majors in keyboard instruments

8 semesters of choir
5 semesters of chamber ensemble
3 elective semesters

THEORY/COMPOSITION: majors in voice, guitar

4 semesters of choir
8 semesters of chamber ensemble
4 elective semesters

THEORY/COMPOSITION: majors in stringed instruments (other than guitar)

8 semesters of orchestra
4 semesters of chamber ensemble
4 elective semesters

MUSIC THERAPY:

6 semesters using primary instrument
2 semesters using secondary instrument

MUSIC HISTORY: majors in voice, guitar or keyboard

6 semesters of choir
2 elective semesters

MUSIC HISTORY: majors in brass, woodwinds or percussion

6 semesters of band or orchestra
2 elective semesters

For the purposes of the above requirements, "chamber ensemble" includes Collegium Musicum, Clairchords and all solo/duet/trio/etc. repertoire which involves piano accompaniment and does not duplicate materials studied for solo recital or jury performance. Participation in Jazz Power and Jazz Machine may substitute for a portion of Concert Band, with the approval of the Department Chairman and the appropriate conductors.

Performance Dress Code

Since the Department of Music has the training of future professional musicians as one of its major objectives, the music student major is expected to dress as a professional whenever appearing before the public.

WEDNESDAY RECITALS

Men: dark suit, white shirt with collar, simple necktie; shoes and hose matching the suit. No informal attire is allowed.
Women: simple dress or skirt and blouse; hose and dress shoes; simple costume jewelry is permitted but nothing that would be gaudy or distracting or that would call attention to itself.

SOLO RECITALS

Men: same as for ensemble wear (see below) or simple tuxedo with appropriate accessories.
Women: formal gown; jewelry, hose and shoes appropriate to restraint in dress and avoidance of distraction.
Accompanists: same as for ensemble wear (see below) or matching the attire of the soloist.

ENSEMBLES

Men: black or dark blue suit, solid color white collar shirt, with black, solid color four-in-hand tie; black shoes; black, over-the-calf hose.
Women: black floor-length, solid color skirt, with either solid white or solid black long-sleeved blouse; hose, black shoes. Black pants suit, with either white or black blouse is also acceptable.

Instrumental Rental

A fee of \$20 (subject to change) per semester is charged students who rent college-owned instruments. Summer rental is considered as a separate semester for this purpose.

Degree Requirements

ALL MAJORS

	Semester Hours
1005 029 Student Recital/Seminar, 8 semesters.....	0
1006 307/308 Music History I, II.....	6
1016 101, 102, 201, 0202 Theory I, II, III, IV.....	16
Secondary instrument (voice or piano).....	0-4
Ensembles (see above)	4-8

MUSIC EDUCATION (in addition to requirements for all majors)

APPLIED MUSIC18

Primary Instrument I-VII (14 s.h.)
Secondary Instrument I-IV (4 s.h.)

MUSIC THEORY.....6

1016 303, 304 Orchestration, Counterpoint

ADDITIONAL MUSIC REQUIREMENTS.....11

0832 105, 205, 206, 306 Strings, Brass, Woodwinds, Percussion (each 1 s.h.)
1004 335 Elementary Conducting (2 s.h.)
0832 420 Teaching Music in Secondary Schools (3 s.h.)
Music Elective (2 s.h.)
Senior recital

REQUIRED COLLATERAL COURSE3

4902 105 Acoustics (3 s.h.)

PROFESSIONAL SEQUENCE.....29

0821 220 Philosophical Orientation to Education (3 s.h.)
2001 410 Educational Psychology (3 s.h.)
0829 410 Field Experience in Education (1 s.h.)
0832 320 Teaching Music in Elementary Grades (3 s.h.)

0808 407, 408 Development of Reading I, II (6 s.h.)

Professional semesters:

Junior, Senior Teaching Experiences (8 s.h.)

Teacher, School and Society (3 s.h.)

Senior Field Experience (1 s.h.)

Seminar in Professional Education (1 s.h.)

STATE CERTIFICATION REQUIREMENTS

Students wishing certification must be admitted to the Teacher Education program and follow the professional sequence outlined there. For admission requirements and professional sequence, see material listed under the Department of Curriculum and Teaching.

Performance: Voice (in addition to requirements for all majors)

APPLIED MUSIC36

Primary/Major Instrument (28 s.h.)

1004 040 Master Class (4 s.h.)

1004 3101, 3102, 3103, 3104 Secondary Piano (4 s.h.)

Sophomore and Senior Recitals

ADDITIONAL MUSIC REQUIREMENTS8

1004:340, 342/3, 344/5, 346/7 Italian, French, German and English Repertoire and Diction

REQUIRED COLLATERAL AND GENERAL EDUCATION COURSES..21

French, Italian and German languages (each 2 semesters)

4902 105 Acoustics (3 s.h.)

Performance: Keyboard (in addition to requirements for all majors)

APPLIED MUSIC32

Primary/Major Instrument (28 s.h.)

1004 040 Master Class (4 s.h.)

Sophomore and Senior Recitals

MUSIC THEORY8

1016 303, 304 Counterpoint, Orchestration (6 s.h.)

1016 310, 311 Keyboard Harmony I, II (2 s.h.)

ADDITIONAL MUSIC REQUIREMENTS12

1004 200, 201 Piano Literature (4 s.h.)

1004 335 or 429 Conducting (2 s.h.)

1004 439, 440 Piano Pedagogy I, II (4 s.h.)

Elective (2 s.h.)

REQUIRED COLLATERAL COURSE3

4902 105 Acoustics (3 s.h.)

Performance: Instrumental media (in addition to requirements for all majors)

APPLIED MUSIC40

Primary/Major Instrument (28 s.h.)

1004 040 Masterclass (4 s.h.)

1004 3101, 3102, 3103, 3104 Secondary Piano (4 s.h.)

1004 276, 227 Instrumental Literature (4 s.h.)

Sophomore and Senior Recitals

MUSIC THEORY6

1016:303, 304 Counterpoint, Orchestration (6 s.h.)

ADDITIONAL MUSIC REQUIREMENTS6

1004 439 Pedagogy I (2 s.h.)

1004 335 or 429 Conducting (2 s.h.)

Elective (2 s.h.)

REQUIRED COLLATERAL COURSE3

4902 105 Acoustics (3 s.h.)

Theory/Composition (in addition to requirements for all majors)

APPLIED MUSIC20

Primary Instrument (8 s.h.)

Secondary Instrument (4 s.h.)

Instrumental Instruction (8 s.h.)

Music Theory and Composition 28

1016 303, 304 Counterpoint, Orchestration (6 s.h.)

1016 412 Electronic Music Composition (3 s.h.)

1016 341, 342 Private Study I, II (4 s.h.)

1016 441, 442 Private Study I, II (4 s.h.)

1016 401 Music Composition (2 s.h.)

1016 310, 311 Keyboard Harmony (3 s.h.)

Note: if piano is the student's secondary instrument, a music elective may be substituted.

Electives (6 s.h.)

ADDITIONAL MUSIC REQUIREMENTS5

1006 407 Music History III (3 s.h.)

1004 335 or 429 Conducting (2 s.h.)

REQUIRED COLLATERAL COURSE3

4902 105 Acoustics (3 s.h.)

Music Therapy (in addition to requirements for all majors)

APPLIED MUSIC14

Primary Instrument (8 s.h.)

Secondary Instrument (4 s.h.)

1004 3171, 3172 Secondary Guitar I, II (2 s.h.)

MUSIC THEORY.....2

1016 401 Music Composition (2 s.h.)

ADDITIONAL MUSIC REQUIREMENTS.....11

0832 105, 205, 206, 306 Strings, Brass, Woodwinds, Percussion (ea.1 s.h.)

1004 335 Elementary Conducting (2 s.h.)

1004 429 Choral Conducting (2 s.h.)

1005 150 Influence of Afro-American Culture on Music
OR 1005:160 Music in World Cultures (3 s.h.)**PROFESSIONAL SEQUENCE.....25**

0831 410 Introduction to Art Therapy (3 s.h.)

2001 235 Psychology of the Handicapped (3 s.h.)

2001 365 Abnormal Psychology (3 s.h.)

1095 160 Introduction to Music Therapy I, (2 s.h.)

1095 261 Therapy and Observation Skills for Music Therapy (2 s.h.)

1095 463, 464 Psychological Foundations of Music I, II (4 s.h.)

1095 461 Music Therapy With Children (3 s.h.)

1095 462 Music Therapy With Adults (3 s.h.)

1095 3105 Piano Improvisation for the Music Therapist (1 s.h.)

1095 465 Internship in Music Therapy (1 s.h.)

ADDITIONAL MUSIC THERAPY REQUIREMENTS.....6

1095 361, 363, 364 Music Therapy Practicum I, II, III, IV (4 s.h.)

1095 3105 Piano Accompanying for Music Therapy (1 s.h.)

REQUIRED COLLATERAL AND GENERAL EDUCATION COURSES..18

4902 105 Acoustics (3 s.h.)

1701 109 Statistics (3 s.h.)

0401 242 Human Biology (3 s.h.)

2001 101 General Psychology (3 s.h.)

2001 201 Child Psychology (3 s.h.)

Approved Sociology elective (3 s.h.)

Music History (in addition to requirements for all majors)**APPLIED MUSIC8**

Primary Instrument (4 s.h.)

Secondary Instrument (4 s.h.)

MUSIC THEORY.....3

Elective (3 s.h.)

MUSIC HISTORY AND LITERATURE.....18

1005 160 Music in World Cultures (3 s.h.)

1006 462 Seminar in Music I (3 s.h.)

Electives (12 s.h.)

Thesis (0 s.h.)

REQUIRED COLLATERAL AND GENERAL EDUCATION COURSES..48

German (12 s.h.)

1007 100 Introduction to Theatrical Medium (3 s.h.)

Elective in History OR Literature (3 s.h.)

Elective in Art History (3 s.h.)

Elective in Theatre History (3 s.h.)

1001 100 Introduction to Visual Arts (3 s.h.)

1503 172 Western World Literature (3 s.h.)

French I and II or Italian I and II (6 s.h.)

1701 108 Computers and Programming (3 s.h.)

2205 142 Twentieth Century Global Civilization (3 s.h.)

0838 101 Introduction to Business (3 s.h.)

2205 104 Introduction to Historical Thinking (3 s.h.)

Courses of Instruction

H 0832 105

STRING INSTRUMENTS I

1.0

Elementary playing skills, violin being the basic instrument for all who lack string experience; materials and methods for beginning string classes.

H 0832 106

STRING INSTRUMENTS II

1.0

Continuation of H 0832 105.

Pre-requisites: H 0832 105 Majors only.

H 0832 132

MARCHING BAND TECHNIQUES

2.0

Methods, organization and planning. Drill design, playing, rehearsal techniques.

H 0832 205

BRASS INSTRUMENTS

1.0

Skills on trumpet, horn, trombone and other brasses; materials and procedures for teaching these instruments in beginning classes.

H 0832 206

WOODWIND INSTRUMENTS

1.0

Skills on clarinet, flute, oboe and other woodwinds; materials and methods for teaching these instruments; organizing woodwind classes.

H 0832 300

PRINCIPLES AND PRACTICES OF MUSIC EDUCATION AND THERAPY

3.0

Basic educational methods and philosophies useful both to education and therapy students; foundations of Orff and Kodaly techniques. Special attention to dealing with disturbance; goal orientation and activities aimed at changing behavior through music. Team taught by specialists in music education and music therapy.

Pre-requisite: Permission of coordinators of music teacher education and music therapy.

H 0832 306

PERCUSSION INSTRUMENTS

1.0

Skills on snare drum, bass drum, timpani, cymbals, bells, etc; materials and methods for teaching these instruments in the classroom.

Pre-requisites: H 1016 202.

H 0832 320

TEACHING MUSIC IN THE ELEMENTARY GRADES K-6

3.0

Principles, techniques, materials and methods. Kodaly, Orff, MMCP, Carabo-Cone; techniques germane to both the traditional and more innovative school structures; individualized instruction and techniques for small and large groups; the sequential curriculum in music education.

Pre-requisites: H 1016 202.

H 0832 334
CHORAL TECHNIQUE 2.0
 Tone production, phrasing, enunciation, interpretation, testing and classification of voices, balancing parts, rehearsal routines, accompanying and conducting.
Pre-requisite: H 1016 202.

H 0832 336
SCHOOL ORCHESTRAS AND BANDS 2.0
 Organization; selection, purchase and care of instruments; evaluation of materials; techniques of instruction; substitution of parts, rehearsal routine; marching band; repertory suitable for high school orchestras and bands.
Pre-requisites: H 0832 205, H 0832 206.

H 0832 405
ORCHESTRA CONDUCTING AND SCORE READING 2.0
 Ear training appropriate to conducting; baton technique; score reading; interpretation.
Pre-requisites: H 1004 335, H 1016 303.

H 0832 420
THE TEACHING OF MUSIC IN SECONDARY SCHOOLS 3.0
 Philosophy, aims, content and procedures of music teaching in the junior and senior high school; emphasis upon the teaching of the general music class and the incorporation of new methods; lesson plans and units of work for use in the classroom. Includes observation and participation.
Pre-requisite: H 0832 320.

H 0832 430
PROBLEMS IN TEACHING SCHOOL MUSIC 2.0
 Evaluation of student-teaching experiences; teaching problems and solutions; overview of music education.
Prerequisites: H 0832 420 and completion of student teaching.

H 0832 439
PIANO PEDAGOGY I 2.0
 Methods and materials of teaching piano for piano grades I through IV.
Pre-requisite: status as music major—junior or senior.

H 0832 440
PIANO PEDAGOGY II 2.0
 Methods and materials of teaching piano for piano grades V through VIII.
Pre-requisite: status as music major—junior or senior. Completion of 0832 439.

H 0832 499
INDEPENDENT STUDY IN MUSIC EDUCATION 1-4.0
 Project and/or study area planned with sponsoring faculty member.

H 1004 031
ORCHESTRA 0.5

H 1004 032
BAND 0.5

H 1004 033
MARCHING BAND 0.5

H 1004 034
OPERA WORKSHOP 2.0
 Musical theater studied through performance. Nature of dramatic music, problems of movement, make-up, costuming, props and scenery. Open to juniors and seniors and to lower classmen by permission. Accompanying and singing roles assigned by audition. May be repeated for credit.

H 1004 035
JAZZ ENSEMBLE 0.5
 Study through playing or singing of chamber music in ensembles of varying size and musical styles.
Pre-requisite: Ability to perform at a level satisfactory to instructor.

H 1004 036
ENSEMBLE PERFORMANCE 0.3
 7½ week ensemble performance in the spring semester of the junior year. Music education majors only, primary ensemble.

H 1004 037
ENSEMBLE PERFORMANCE 0.2
 7½ week ensemble performance in the spring semester of the senior year. Music education majors only, primary ensemble.

H 1004 038
COLLEGIUM MUSICUM I 0.5
 Study of early instruments: Viola da gamba, lute, recorder, cromorne, sackbut, organetto, psaltery, etc. Consort performance of Medieval, Renaissance, and early Baroque music.

H 1004 039
COLLEGIUM MUSICUM II 0.5
 Continuation of H 1004 038.
Pre-requisite: H 1004 038.

H 1004 040
MASTER CLASS IN PERFORMANCE 0.5
 Performance of piano repertoire for coaching in interpretation, style, analysis, technique, etc. Required in conjunction with each course in the primary and major instrument.
Pre-requisite: Piano primary instrument requirement must be met.

H 1004 060
MUSIC THEATER PRACTICUM I 1.0
 Preparation and presentation of a work of musical theater.
Pre-requisite: Audition or permission of instructor.

H 1004 061
MUSIC THEATER PRACTICUM II 1.0
 Participation in or preparation of a second production.
Pre-requisite: Audition or permission of instructor.

H 1004 100
CLASS PIANO FOR NON-MUSIC MAJORS 3.0
 Basic skills and fundamental knowledge of the keyboard. A basic knowledge of music reading is helpful but not necessary.

H 1004 200
INSTRUMENTAL LITERATURE I 2.0
 Study through performance of music for solo, chamber group or orchestral group(s) with emphasis on sight reading of varied materials from 1600 to the present.
Pre-requisite: ability to play an orchestral or band instrument.

H 1004 201
PIANO LITERATURE I 2.0
 Investigation through performance and directed listening of standard piano repertory from J.S. Bach to the present.
Pre-requisites: H 1016 101, 102. Majors only.

- H 1004 202
PIANO LITERATURE II 2.0
Continuation of Piano Literature I.
Pre-requisite: H 1004 201 Majors only.
- H 1004 276
INSTRUMENTAL LITERATURE I 2.0
Survey of various instrumental genre for solo, small ensemble and orchestra.
Pre-requisite: performance ability on standard orch. or band instrument.
- H 1004 277
INSTRUMENTAL LITERATURE II 2.0
Continuation of Instrumental Literature I.
Pre-requisite: H 1004 276 Majors only.
- H 1004 300
JAZZ BAND — IMPROVISATION LAB 2.0
Jazz improvisation and performance techniques studied through ensemble rehearsals; creative use of instrumental and harmonic skills in the jazz idiom.
- H 1004 301
CHAMBER ENSEMBLE PERFORMANCE 0.5
Study through playing or singing of chamber music in ensembles of varying size and musical styles.
Pre-requisite: Ability to perform at a level satisfactory to instructor.
- H 1004 302
JAZZ ENSEMBLE 0.5
Contemporary ensemble requirements like jazz phrasing, section playing, interpretation, improvisation studied through ensemble rehearsal and performance.
Pre-requisite: Permission of instructor.
- H 1004 304
JAZZ KEYBOARD AND THEORY 2.0
Introduction to jazz techniques of harmonization, improvisation and theory at the keyboard in varying styles.
Pre-requisites: H 1004 0101, 0102, 0103, 0104 or permission of instructor.
- H 1004 335
ELEMENTARY CONDUCTING 2.0
Baton techniques and clef reading in orchestral and choral scores.
Pre-requisite: H 1016 202.
- H 1004 340
ITALIAN REPERTORY AND DICTION I 1.0
Italian art songs; interrelation of music with text; the vocal musical line and the instrumental part; technical and the stylistic demands of the music; Italian diction introduced. Emphasis on listening and performing. Majors only.
- H 1004 341
ITALIAN REPERTORY AND DICTION II 1.0
Continuation of H 1004 340.
Pre-requisite: H 1004 340; basic knowledge of Italian diction. Majors only.
- H 1004 342
FRENCH REPERTORY AND DICTION I 1.0
Basic French for singing; enunciation and pronunciation; vocabulary.
Pre-requisite: Some fundamental knowledge of use of singing voice. Majors only.
- H 1004 343
FRENCH REPERTORY AND DICTION II 1.0
Continuation of H 1004 342. Study of French repertory. Projection of text, musical style.
Pre-requisite: H 1004 342; basic knowledge of French diction.
- H 1004 344
GERMAN REPERTORY AND DICTION I 1.0
Basic German for singing; enunciation and pronunciation; vocabulary.
Pre-requisite: Some fundamental knowledge of use of singing voice. Majors only.
- H 1004 345
GERMAN REPERTORY AND DICTION II 1.0
Continuation of H 1004 344. Advanced material; study of German repertory; projection of text, musical style.
Pre-requisite: H 1004 344; Basic knowledge of German diction.
- H 1004 346
ENGLISH REPERTORY AND DICTION I 1.0
Basic rules for singing in English; correcting poor everyday speech habits; learning songs.
Pre-requisites: Fundamental knowledge of the singing voice. Majors only.
- H 1004 347
ENGLISH REPERTORY AND DICTION II 1.0
Continuation of H 1004 346. Art songs, contemporary arias. Meaning of text and means of communicating words to the audience.
Pre-requisite: H 1004:346. Some experience in vocal performance.
- H 1004 400
SELECTED TOPICS IN MUSIC I 1.5
Intensive study of a single composer or limited array of works. May be taken a second time. 7-week course.
Pre-requisites: H 1006 308 Majors only or Instructor's permission.
- H 1004 401
SELECTED TOPICS IN MUSIC II 1.5
Intensive study of a single composer or limited array of works. May be taken a second time. 7-week course.
Pre-requisites: H 1006 308 Majors only or Instructor's permission.
- H 1004 429
CHORAL CONDUCTING 2.0
Tone production, tuning, posture, score reading; interpretation and techniques of choral conducting; materials suitable for use in high school.
Pre-requisites: H 1004 335.
- H 1004 439
PEDAGOGY I 2.0
Methods and materials of instruction in music.
- H 1004 440
PEDAGOGY II 2.0
Continuation of H 1004 439.
- H 1004 461
PROJECT IN MUSIC I — OPERA PRODUCTION 3.0
Student production and direction of a contemporary opera, folk musical or original work. Open to all students by audition.
- H 1004 465
PROBLEMS OF PERFORMANCE 3.0
Development of techniques needed for success in public appearances involving music, theatre, speech, etc. Resolving such problems as stage fright, memory loss, pre-performance anxiety; attaining self-understanding and confidence using techniques of Havas, Berne, Horrigel, Weekes, Alexander, others. Guest performers. Open to all majors. (Listed also under Dept. of Psychology T 2001 465).

H 1004 499
INDEPENDENT STUDY IN MUSIC PERFORMANCE 1-4.0
Project and/or study planned with sponsoring faculty member.
Pre-requisite: Sponsoring instructor's permission.

H 1004 3101
SECONDARY INSTRUMENT PIANO I 1.0
Keyboard skills including major and minor scales, arpeggios and chord progressions, sightreading, transposition, harmonization, improvisation.

H 1004 3102
SECONDARY INSTRUMENT PIANO II 1.0
Continuation of 1004 3101.
Pre-requisites: H 1004 3101.

H 1004 3103
SECONDARY INSTRUMENT PIANO III 1.0
Continuation of 1004 3102.
Pre-requisites: H 1004 3102.

H 1004 3104
SECONDARY INSTRUMENT PIANO IV 1.0
Continuation of 1004 3103. A comprehensive examination must be passed at the end of the semester.
Pre-requisites: H 1004 3103.

H 1005 029
STUDENT RECITAL no credit
All music majors must register for this number every semester in order to free their schedules for recital commitments.

H 1005 100
INTRODUCTION TO MUSIC 3.0
Expansion of musical awareness through live performance and directed listening.

H 1005 150
INFLUENCE OF AFRO-AMERICAN CULTURE ON MUSIC 3.0
Ways in which the Afro-American culture has affected the development of American folk and art music.

H 1005 160
INTRODUCTION TO MUSIC IN WORLD CULTURES 3.0
The cultural and artistic forces which shape the musics of the nonwestern world and the various folk and art musics resulting from those forces.

H 1005 170
RECREATIONAL MUSIC FOR THE LARGE GROUP 3.0
Opportunity for all students, whether majoring in music or not, to participate in group musical activities. The specific character of the course will be determined by the class.

H 1005 208
RECREATIONAL INSTRUMENTS FOR THE NONREADER OF MUSIC 2.0
Elementary playing, accompanying, and teaching skills on instruments like accordion, recorder, tonette, autoharp, ukulele, harmonica, and guitar.
Pre-requisite: Instructor's Permission.

H 1005 209
INTRODUCTION TO JAZZ 3.0
Jazz as an American phenomenon; musical materials as manipulated by jazz artists; the impact on American popular music, dance and theater; early jazz players and developments.

H 1005 250
SOUNDS OF THE CITY 3.0
The sound spectrum of the city approached with the expanded ideation of contemporary music. The vehicle for study and experience will be the creation by the group of a 1½ hour tape. Work based on sounds of the city.

H 1005 309
THE ART OF JAZZ 3.0
Development of jazz in America and abroad; sociological implications in American society and the impact of jazz upon contemporary composition.
Pre-requisite: H 1015 209.

H 1005 337
THE OPERA 3.0
Styles and approaches in music for purposes of dramatic characterization, atmosphere and plot development; representative works in English, Italian, French and German from Monteverdi to the present.

H 1005 338
ORCHESTRAL LITERATURE 3.0
Representative genres and styles for large instrumental ensembles from the early Baroque era to the present.

H 1005 340
MUSIC OF THE ROMANTIC PERIOD 3.0
The romantic spirit in nineteenth-century and selected modern works; performance and directed listening, parallel aspects of literature and the visual arts.

H 1005 350
LITERATURE OF CHAMBER MUSIC 3.0
Study of various types of chamber music for vocal and instrumental groups.

H 1005 351
MUSIC IN THE URBAN SOCIETY 3.0
Organization and management of concert halls, opera companies, music publishing firms and recording companies; financing and anticipating the needs of the urban community. Construction and acoustics of halls and theaters.

H 1005 352
MUSIC IN FILM 3.0
Aesthetic and social effects of music on cinematography enhancing plot, augmenting visual qualities and focusing audience attention; Music from early silent films to modern. No previous music or film experience required.

H 1005 426
SURVEY OF MUSIC LITERATURE 3.0
Folk and art song, oratorio, opera, idealized dance forms, instrumental suites, symphonic poem; principles of musical form. For the general student.

H 1005 462
PROJECT IN MUSIC II: OPERA STUDY TOUR 3.0
Course description available in winter session brochure. Open to all students, but limited to enrollment of twenty. Special fee to be announced. Pass/fail. Available only in winter session.
Pre-requisite: Instructor's permission.

H 1005 499
INDEPENDENT STUDY IN MUSIC 1-4.0
Project and/or study planned with sponsoring faculty member.

- H 1006 201
METROPOLITAN OPERA — SEMINAR IN THE STUDY OF OPERA 2-3.0
Study of opera at the Metropolitan Opera House; observation of rehearsals; lecture-demonstrations; on-site study of technical aspects of opera production. Additional research opportunities provided for a third credit hour.
Pre-requisite: Instructor's permission.
- H 1006 307
MUSIC HISTORY I — RESEARCH METHOD MUSIC BIBLIOGRAPHY 3.0
Styles, genres and shaping forces of western music from the rise of polyphony in the early Middle Ages through the music of Haydn and Mozart.
Pre-requisite: 1016 202; majors only or instructor's permission.
- H 1006 308
MUSIC HISTORY II 3.0
Continuation of H 1006 307, beginning with Beethoven. The music of the romantic era as manifested in the nineteenth and twentieth centuries; major currents of the modern era.
Pre-requisite: H 1006 307.
- H 1006 400
SELECTED TOPICS IN MUSIC I 1.5
Intensive study of a single composer or of a limited array of works. May be taken a second time. 7-week course.
Pre-requisites: H 1006 307, 308 Instructor's permission.
- H 1006 401
SELECTED TOPICS IN MUSIC II 1.5
Intensive study of a single composer or of a limited array of works. May be taken a second time. 7-week course.
Pre-requisites: H 1006 307, 308 Instructor's permission.
- H 1006 407
MUSIC HISTORY III 3.0
Major figures, forms, genres and styles from Debussy to the present.
Pre-requisite: H 1006 307, 308 or instructor's permission.
- H 1006 462
PROJECTS IN MUSIC I (SEMINAR) 3.0
Research on a project or problem in an area selected by each student with the instructor's approval. Conducted in America or abroad.
Pre-requisite: Instructor's permission.
- H 1006 463
PROJECTS IN MUSIC II (SEMINAR) 3.0
Research on a project or problem in an area selected by each student with the instructors approval. Conducted in America or abroad.
Pre-requisite: H 1006 462; instructor's permission.
- H1006 499
INDEPENDENT STUDY: MUSIC HISTORY 1-4.0
Project and/or study planned with sponsoring faculty member.
Pre-requisite: Instructor's permission.
- H 1016 100
MUSIC COMPOSITION FOR NON-MAJORS 3.0
Creative exploration of the various aspects of the craft of music composition. Deals with musical notation, instrumentation, forms, styles, contemporary techniques, performance practice, etc.
Pre-requisite: Ability to read music at a basic level.
- H 1016 101
THEORY I 4.0
Integrated study of harmony, counterpoint, and analysis of small forms with emphasis on aural and keyboard skills. Meets six hours weekly.
Pre-requisite: Music majors only or permission of instructor.
- H 1016 102
THEORY II 4.0
Continuation of topics and materials covered in Theory I. Meets six hours weekly.
Pre-requisite: H 1016 101. Music majors only or permission of instructor.
- H 1016 150
FUNDAMENTALS OF MUSIC FOR THE NON-MUSIC MAJOR 3.0
Introduction to music notation: Reading of clefs, key signatures and their relationship to various modes; rhythm and meter; basic harmonic structures (intervals, triads, and seventh chords.). Sight singing and dictation stressed.
- H 1016 201
THEORY III 4.0
Chromatic harmony; intermediate contrapuntal techniques; analysis of the larger instrumental forms. Continuation of emphasis on aural and keyboard skills related to these areas. Meets six hours weekly.
Pre-requisites: H 1016 102. Music majors only or permission of instructor.
- H 1016 202
THEORY IV 4.0
Continuation of H 1016 201. Meets six hours weekly.
Pre-requisites: H 1016 201. Music majors only, or permission of instructor.
- H 1016 301
PROSEMINAR IN MUSIC THEORY 3.0
Coordinating seminar in analytical and aural skills and harmonic, contrapuntal and compositional procedures found in western art music focusing on selected topics relevant to undergraduate study.
Pre-requisites: H 1016 201. Music majors only or permission of instructor.
- H 1016 303
THEORY V 4.0
Continuation of materials and techniques of Theory I-IV; writing, dictation and analysis. Emphasis also on layer analysis and historical counterpoint.
Pre-requisite: H 1016 202 or instructor's permission.
- H 1016 304
THEORY VI 4.0
Continuation of materials and techniques of Theory I-V; writing, dictation and analysis. Emphasis also on orchestration and analytical procedures.
Pre-requisite: H 1016 303.
- H 1016 310
KEYBOARD HARMONY FOR PIANO MAJORS I 1.0
The various skills pianists will need as professional performers, therapists, and educators. Harmonization of melodies, transposition, improvisation, realization of figured bass, reduction of open scores and sightreading.
Pre-requisite: status as a keyboard major.
- H 1016 311
KEYBOARD HARMONY FOR PIANO MAJORS II 1.0
Continuation of H 1016 310.
Pre-requisite: H 1016 310.
- H 1016 340
STRUCTURAL ANALYSIS 2.0
Formal organization of selected compositions.
Pre-requisite: H 1016 202.

H 1016 341
PRIVATE STUDY IN COMPOSITION I 2.0
Restricted to majors in Theory/Composition.
Pre-requisite: H 1016 202.

H 1016 342
PRIVATE STUDY IN COMPOSITION II 2.0
Restricted to majors in Theory/Composition.
Pre-requisite: H 1016 341 Majors only.

H 1016 401
MUSICAL COMPOSITION 2.0
Practical exploration of the various trends in the 20th century composition.
Pre-requisite: H 1016 202.

H 1016 405
SELECTED TOPICS IN THEORETICAL STUDIES 1.0
Research and discussion of selected topics in theoretical studies focusing on stylistic and analytical problems. To be offered as short term courses. May be repeated for credit.
Pre-requisites: H 1016 304.

H 1016 412
ELECTRONIC MUSIC COMPOSITION 3.0
Exploration of electronic music techniques; practical experience in both concrete and synthesizer music.
Pre-requisites: H 1016 202.

H 1016 415
THEORY PEDAGOGY 2.0
A survey of pedagogical approaches to music theory.
Pre-requisites: H 1016 202.

H 1016 441
PRIVATE STUDY IN COMPOSITION I 2.0
Restricted to majors in Theory/Composition.

H 1016 442
PRIVATE STUDY IN COMPOSITION II 2.0
Restricted to majors in Theory/Composition.
Pre-requisite: H 1016 441.

H 1016 460
MUSIC PREPARATION 2.0
Study of methods of manuscript preparation, copying techniques and practical problems involved in preparing commercial scores for recording, film and background playing. Undergraduate theory, knowledge of notation.
Pre-requisite: Undergraduate theory, knowledge of notation.

H 1016 499
INDEPENDENT STUDY IN THEORY/COMPOSITION 1-4.0
Project and/or study planned with sponsoring faculty member.
Pre-requisite: H 1016 202.

H 1095 160
INTRODUCTION TO MUSIC THERAPY I 2.0
Survey of use of music therapy with various populations and other topics of relevance to the music therapist.

H 1095 207
BAND AND ORCHESTRA INSTRUMENTS PEDAGOGY AND PRACTICUM 2.0
Techniques of playing violin, string bass, flute, clarinet, saxophone, trumpet, trombone, drum set, and teaching methods appropriate to people with no music reading ability.

H 1095 208
RECREATIONAL INSTRUMENTS FOR THE MUSIC READER 2.0
Elementary playing, accompanying, and teaching skills on accordion, popular and church organ, recorder, tonette, autoharp, ukelele, and harmonica.
Pre-requisite: instructor's permission.

H 1095 261
THERAPY AND OBSERVATION SKILLS FOR MUSIC THERAPY 2.0
Observing, measuring and recording behavior in a music therapy setting and other aspects of planning for music therapy sessions as well as observing music therapy sessions.

H 1095 361
MUSIC THERAPY PRACTICUM I 1.0
Improvement of the functioning of a client or group of clients with physical or mental disabilities through the use of music therapy. Discussion of the clients and their progress and other aspects of the clinical work.
Pre-requisites: H 1095 160, H 1095 261, H 1095 460, instructor's permission.

H 1095 362
MUSIC THERAPY PRACTICUM II 1.0
Continuation of H 1095 361.
Pre-requisite: H 1095 361.

H 1095 363
MUSIC THERAPY PRACTICUM III 1.0
Continuation of H 1095 362.
Pre-requisite: H 1095 362.

H 1095 364
MUSIC THERAPY PRACTICUM IV 1.0
Continuation of H 1095 363.
Pre-requisite: H 1095 363.

H 1095 400
MUSIC THERAPY TRAINING GROUP 1.0
Expression and exploration of feelings through use of creative media. Particular attention to process so that experience may be generalized and subsequently used with client groups. Meets two hours per week for two semesters. Credit for first semester granted only upon satisfactory completion of the two-semester sequence.
Pre-requisites: 0842 431; H 1095.

H 1095 401
MUSIC THERAPY TRAINING GROUP 1.0
Continuation of H 1095 400. Meets two hours per week for two semesters. Credit for first semester granted only upon satisfactory completion of the two-semester sequence.
Pre-requisite: H 1095-400.

H 1095 461
MUSIC THERAPY WITH CHILDREN 3.0
Ways in which music and the therapist may be used to influence the behavior of children, the mentally retarded, and the physically disabled.
Pre-requisite: Senior standing in Music Therapy.

H 1095 462
MUSIC THERAPY WITH ADULTS 3.0
Ways in which music therapy may be used in working with adult psychiatric patients, addictions, offenders, and geriatrics; setting up a music therapy program.
Pre-requisite: Senior standing in Music Therapy.

H 1095 463
PSYCHOLOGICAL FOUNDATIONS OF MUSIC I 2.0
 The basic literature concerning psychological research in music, with emphasis on research techniques and interpretation of data. Findings will be used to discuss current ideas and practices in music therapy, performance, and music education.
Pre-requisite: Junior status as a therapy major.

H 1095 464
PSYCHOLOGICAL FOUNDATIONS OF MUSIC II 2.0
 The emotional correlates of the musical experience explored through research findings, psychological testing and inquiry, and philosophy. Implications of current theories applied to practices in music therapy, performance, and music education.
Pre-requisite: H 1095 463.

H 1095 465
INTERNSHIP IN MUSIC THERAPY 1.0
 Six months clinical training as a music therapy intern in a training program approved by the National Association for Music Therapy.
Pre-requisite: Completion of all course work leading to a baccalaureate degree or equivalent.

H 1095 499
INDEPENDENT STUDY IN MUSIC THERAPY 1-3.0
 Project and/or study planned with sponsoring faculty member.

H1099 450
INTRODUCTIONS TO PERFORMING ARTS MANAGEMENT I 3.0
 Structures of performing arts organizations in the U.S.
Pre-requisites: 9 s.h. in arts appreciation of applied work, demonstrated interest in the arts, or permission of instructor or department.

H 1099 451
INTRODUCTION TO PERFORMING ARTS MANAGEMENT II 3.0
 Problems and theories of arts management for performing groups in the U.S.; marketing, production, fund-raising, and other aspects of operation.
Pre-requisites: Intro. to Performing Arts Management I or permission of instructor.

H 1099 460
INTERNSHIP IN PERFORMING ARTS MANAGEMENT I 4.0
 Field work, 2 days per week (or the equivalent) in a professional situation. On-the-job training in day-to-day operations of a performing arts organization. Students will participate in all facets of production, observe decision-making activities. Registrants must drive and provide own transportation.
Pre-requisites: Intro. to Perf. Arts Management I, II, permission of sponsor, permission of dept chairperson, 1 sem. of psychology.

H 1099 461
INTERNSHIP IN PERFORMING ARTS MANAGEMENT II 4.0
 Continuation of internship in Performing Arts Management 1-2 days per week or equivalent in field work with an arts organization devoted to performance. Registrants must drive and provide own transportation. sites: Internships in
Pre-requisites: Internship I, permission of sponsor and department.

H 1099 462
INTERNSHIP IN PERFORMING ARTS MANAGEMENT III 4.0
 Full semester's internship in performing arts organization with time allocation mutually decided by the sponsor and the student's major department. Interns must be able to drive and to provide own transportation.
Pre-requisites: Internships in Perf. Arts Management I, II, permission of sponsor, permission of major department.

H 1099 470
EXTERNSHIP IN PERFORMING ARTS MANAGEMENT 1-15.0
 Management of an arts organization arranged in cooperation with the major department and umbrella organizations. Credit to be arranged.
Pre-requisites: Intro. to Perf. Arts Management I, II, two semesters of internship, permission of sponsor(s) and major department.

Philosophy and Religion

Chairperson: Thomas Bridges

Taking courses in philosophy and religious studies means gaining a greater ability to think clearly and independently about the central issues of human life. These studies present the occasion and the means to reflect critically on basic values and beliefs. The courses compliment other major programs by enhancing awareness of the philosophical, ethical and religious elements and implications of other academic studies.

Both areas can be taken as a major, leading to a Bachelor of Arts degree. They also are good second majors to enrich a liberal arts interest. A minor is offered in both programs. Each major is excellent preparation for later graduate and professional work.

Philosophy Major

REQUIRED COURSES

	Semester Hours
Fields of Philosophy (even course numbers)	15
History and Movements (odd course numbers)	
1509 331 Ancient Philosophy	3
1509 333 Descartes to Kant	3

Electives (in History and Movements).....9

Seminar in Philosophy (select one)3

Philosophy Minor

Required Courses (18 sh)

	Semester Hours
Fields of Philosophy (even course numbers)*	6-12
History and Movements in Philosophy	
(odd course numbers)*	6-12

*Consult with a departmental advisor for the choice of courses.

Religious Studies Major

REQUIRED COURSES

1599 100 Religions of the World.....	3
1599 401, 403 Philosophical Backgrounds I, II	6

Electives (departmental)

Select 21 sh from the appropriate list to be obtained from the department21

Seminar in Religious Studies (select one).....3

RELIGIOUS STUDIES MINOR

Required Courses

1599 101 Introduction to Religion.....	3
1599 460, 462, 465, 467 Seminar in Religious Studies.....	3

Electives (departmental)

Select 12 sh from the appropriate list to be obtained from the department12

Courses of Instruction

R 1509 100
INTRODUCTION TO PHILOSOPHY 3.0
The nature, scope, methods, basic problems and major types of philosophy.

R 1509 102
ETHICS 3.0
The nature of ethical judgments, the meaning of moral concepts, the conditions of moral responsibility and the methodological presuppositions of ethical theories.

R 1509 104
SOCIAL AND POLITICAL PHILOSOPHY 3.0
The nature of society and the state, their relation to each other and to the individual, and an evaluation of some main political and social ideals.

R 1509 106
LOGIC 3.0
The forms of deductive and inductive argument in traditional logic; the fundamentals of modern formal logic.

R 1509 202
ETHICS AND BUSINESS 3.0
Study of meaning of morality in modern world of business. Course contains balance of theory and practice as it examines behavior of business against background of conflicting ethical theory.

R 1509 204
MORALS AND MEDICINE 3.0
A study of moral decision making in regard to specific moral problems arising in such areas of contemporary medical research and practice as experimentation on human subjects, euthanasia, abortion, information rights of patients, and eugenic sterilization.

R 1509 206
PHILOSOPHICAL ISSUES IN LAW AND JUSTICE 3.0
An examination of current philosophical accounts of both distributive and retributive justice. Close attention will be paid to such specific issues as the right of society to legislate its common morality, the use of behavior modification, techniques on criminal offenders and the restoration of capital punishment.

R 1509 231
AMERICAN PHILOSOPHY 3.0
The major American philosophers and philosophical movements, with emphasis on Peirce, James, Royce, and Dewey.

R 1509 233
CONTEMPORARY PHILOSOPHERS 3.0
The major movements in contemporary philosophy, studied through writings of leading exponents.

R 1509 235
MARX AND MARXISM 3.0
The philosophy of Marx with special attention to his Hegelian background, his concept of man, and the genesis of his social and political philosophy. Engels, Lenin and contemporary existentialist marxism are considered briefly.

R 1509 237
ORIENTAL PHILOSOPHY 3.0
Philosophical interpretations of experience and reality in representative movements of eastern thought.

R 1509 239
EXISTENTIALISM 3.0
The major themes and concepts of existentialism in selected writings of the existentialist philosophers.

R 1509 260
PHILOSOPHIES OF ART 3.0
The major philosophies of art in the history of western thought. The conceptual network of ideas of the thinker in question will be delineated, and connections shown between the thinker and the philosophical and artistic themes of that period.

R 1509 262
PHILOSOPHY OF RELIGION 3.0
The nature and shape of religious experience, criteria for meaning within religious thought and language. Metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death.

- R 1509 264
LOGIC II: ARGUMENTS IN CONTEXT 3.0
An intermediary level course, concentration upon argumentation and rhetorical devices as they actually function in every day conversation, philosophical discussion, forensic debate, etc. Arguments will be examined with an eye to penetrating purely formal structure and discovering the underlying dynamics which contribute to cogency in a given context.
Pre-requisite: R 1509 202.
- R 1509 266
PHILOSOPHY OF SCIENCE 3.0
The epistemological character of scientific thought and the relevance of scientific findings for the clarification and eventual resolution of traditional philosophical issues.
- R 1509 268
PHILOSOPHICAL THEORIES OF HISTORY 3.0
Speculative and critical theories of history, with special attention to epistemological issues such as the nature of historical understanding and explanation, the objectivity of historical knowledge, historical causation and determinism.
- R 1509 290
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Topics announced each semester.
- R 1509 292
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Topics announced each semester.
- R 1509 295
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.
- R 1509 297
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.
- R 1509 310
THEORIES OF KNOWLEDGE AND EXPERIENCE 3.0
The major issues and theories concerning the relationship between knowledge, experience and reality.
- R 1509 312
METAPHYSICS 3.0
An examination of major philosophical theories concerning the nature of reality.
- R 1509 314
PHILOSOPHY AND LANGUAGE 3.0
The major philosophical theories concerning the nature of language in its relation to thought, reality and communication.
- R 1509 316
PHILOSOPHY OF LAW 3.0
An introduction to the philosophical issues of jurisprudence. Close attention is given to the status and nature of law, the concept of equality and the limits of law.
- R 1509 318
CONTEMPORARY AESTHETICS 3.0
Recent investigations into the function of art in human experience; the nature of aesthetic meaning, value, creation and enjoyment.
- R 1509 331
ANCIENT PHILOSOPHY 3.0
The major philosophical systems and movements from the pre-Socratics to Plotinus, with special emphasis on Plato and Aristotle.
- R 1509 333
DESCARTES TO KANT 3.0
The major philosophical systems and movements from the Renaissance to Kant.
- R 1509 335
NINETEENTH-CENTURY PHILOSOPHY 3.0
The major philosophical systems and movements, with emphasis on Peirce, James, Royce, and Dewey.
- R 1509 337
ANALYTIC PHILOSOPHY 3.0
The development of the analytic tradition in twentieth century philosophy; the logical and linguistic techniques employed.
- R 1509 390
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Topics announced each semester.
- R 1509 392
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Topics announced each semester.
- R 1509 395
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.
- R 1509 397
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.
- R 1509 424
SEMINAR IN PHILOSOPHY 3.0
Cooperative research seminars in major movements, problems, philosophers or works. Topics announced each semester.
- R 1509 426
SEMINAR IN PHILOSOPHY 3.0
Cooperative research seminars in major movements, problems, philosophers, or works. Topics announced each semester.
- R 1509 427
SEMINAR IN PHILOSOPHY 3.0
Cooperative research seminars in major movements, problems, philosophers, or works. Topics announced each semester.
- R 1509 429
SEMINAR IN PHILOSOPHY 3.0
Cooperative research seminars in major movements, problems, philosophers, or works. Topics announced each semester.
- R 1509 444
INDEPENDENT STUDY IN PHILOSOPHY 3-12.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.
- R 1509 446
INDEPENDENT STUDY IN PHILOSOPHY 3-12.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.
- R 1509 447
INDEPENDENT STUDY IN PHILOSOPHY 3-12.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

- R 1509 449
INDEPENDENT STUDY IN PHILOSOPHY 3-12.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.
- R 1599 100
RELIGIONS OF THE WORLD 3.0
The major religious traditions, with emphasis on basic beliefs and on the nature and diversity of religious awareness.
- R 1599 101
INTRODUCTION TO RELIGION 3.0
An inquiry into man's religious questions and expressions, their implications, and their critical appreciation and assessment.
- R 1599 102
HISTORY OF WESTERN RELIGION 3.0
The theological and ecclesiastical developments of the major living religions of the western world. Emphasis on Judaism and Christianity.
- R 1599 103
RELIGION AND MORAL ISSUES 3.0
Ethical issues as discussed by representative thinkers of the major religious traditions.
- R 1599 160
RELIGION OF THE EIGHTIES 3.0
This course deals with the contemporary religious scene. Special attention is paid to the new modes of religious experience that are developing and their relation to the institutional religious structures.
- R 1599 200
OLD TESTAMENT: GENESIS TO JOSHUA 3.0
The evolution of the ancient Hebrew world — view as developed through the Bible in response to historical events and ongoing religious experience of the people of Israel.
- R 1599 202
OLD TESTAMENT: JOSHUA TO DANIEL 3.0
The history and theology of Israelite religion as seen in the biblical books covering the middle and late periods (1150-165 B.C.E.)
- R 1599 204
NEW TESTAMENT: JESUS AND THE GOSPELS 3.0
The evolution of the Christian scriptures from the gospels through the history of the early church, with emphasis on themes of major shapers of Christian faith.
- R 1599 206
NEW TESTAMENT: PAUL AND THE EARLY CHURCH 3.0
The writings of Paul, John and other figures in the apostolic period of the early church.
- R 1599 208
REVELATION AND IMAGINATION: THE LITERATURE OF BELIEF 3.0
The interpretation of religious literature, broadly conceived as including story form, epic narratives, "secular" tales and religious poetry, as well as canonical texts.
- R 1599 210
RELIGIONS OF THE NORTH AMERICAN INDIANS 3.0
An introduction to the religious traditions and spirituality of the American Indian peoples.
- R 1599 212
ORIENTAL RELIGIONS 3.0
The cultural and theological bases for the faith and practice of major eastern religions — Buddhism, Confucianism, Hinduism, Taoism.
- R 1599 221
RELIGION AND CULTURE 3.0
The inter-relation of religion and culture in the formulation of human values and views, life-styles and institutions.
- R 1599 223
RELIGION IN AMERICA 3.0
The growth and development of various religious movements — Protestant, Catholic, Jewish, and sectarian minorities — from colonial times to the present.
- R 1599 225
RELIGION AND SOCIAL CHANGE 3.0
The impact of economic, social and political movements on religious belief and the ways in which religion has both furthered and impeded social development.
- R 1599 227
RELIGIOUS LANGUAGE AND EXPERIENCE 3.0
Contemporary philosophical investigations of the nature and function of religious discourse in the context of religious experience and belief.
- R 1599 229
PHILOSOPHY OF RELIGION 3.0
A philosophical examination of religion. It includes the nature and shape of religious experience, criteria for meaning within religious thought and language, metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death.
- R 1599 231
ORIENTAL PHILOSOPHY 3.0
Philosophical interpretations of experience and reality in representative movements of eastern thought.
- R 1599 233
MODERN JEWISH RELIGIOUS THOUGHT 3.0
Contemporary Judaism studied against the background of 19th and early 20th century Jewish thought.
- R 1599 261
CONTEMPORARY RELIGIOUS THOUGHT 3.0
The current trends and issues in religious thought as developed in the writings of contemporary theologians.
- R 1599 263
RELIGION AND PSYCHOLOGY I 3.0
The views of religious man reached by such major psychological approaches as the Freudian, neo-Freudian, analytic-ego, existential and Jungian. Implications of psychology for critical religious thought.
- R 1599 265
RELIGION AND PSYCHOLOGY II 3.0
Selected psychological investigations and/or theories of religious phenomena; the implications for specific and constructive religious thought.
- R 1599 267
WOMEN IN RELIGION 3.0
The roles which have been held by women in the various religious traditions of the world.
- R 1599 269
DEATH AND DYING: RELIGIOUS PERSPECTIVES 3.0
This course is designed to give the student opportunity to study cross cultural religious and philosophical attitudes toward death and the procedures surrounding death. Material for the course will cover rituals of death and dying in both eastern and western religious traditions as well as "secular" rituals associated with death.

- R 1599 271
HERESY AND HETERODOXY 3.0
Movements such as gnosticism, mysticism and sectarianism studied in their relationship to the dominant orthodoxy, how they have been labeled heresies and have functioned within a "little tradition" of their own.
- R 1599 273
THE HOLOCAUST: RELIGIOUS PERSPECTIVES 3.0
A study of Nazi extermination of 6,000,000 Jews during World War II and the moral and religious issues raised by this event.
- R 1599 300
CLASSICS OF WESTERN RELIGIOUS THOUGHT 3.0
Selected works of significant theologians of the western tradition on issues such as the nature of God, Christology, Soteriology, Exxlesiology, Theodicy, etc.
- R 1599 302
JUDAISM AND EARLY CHRISTIAN THOUGHT 3.0
The Jewish and Christian foundations of western religious thought from the second to the fifth centuries of the common era.
- R 1599 304
ISLAMIC RELIGIOUS TRADITIONS 3.0
The historical origins of Islam, the emergence and development of various strands of religious tradition, and their impact on the modern world.
- R 1599 321
SYSTEMS OF RELIGIOUS THOUGHT 3.0
The major doctrines of creative faith in the Judeo-Christian tradition.
- R 1599 323
HISTORICAL THOUGHT IN CHRISTIAN THEOLOGY, 1900-1945 3.0
The impact of modern historical thought on Christian faith, its critical expression in major theologians of the twentieth century.
- R 1599 325
RELIGION AND MODERN CRITICAL THOUGHT, 1600-1900 3.0
The origin and development of the religious spirit, in the light of modern critical thought, from the rise of science to the end of the nineteenth century.
- R 1599 350
SELECTED STUDY IN WORLD RELIGIONS 3.0
Topics announced each semester.
- R 1599 352
SELECTED STUDY IN RELIGION 3.0
Topics announced each semester.
- R 1599 355
SELECTED STUDY IN RELIGION AND CULTURE 3.0
Topics announced each semester.
- R 1599 357
SELECTED STUDY IN RELIGIOUS THOUGHT 3.0
Topics announced each semester.
- R 1599 401
PHILOSOPHICAL BACKGROUNDS OF WESTERN RELIGION I 3.0
The inter-relationships of western religion with philosophy from the pre-Socratics through the Middle Ages. The emergence of classical fields of philosophy.
- R 1599 403
PHILOSOPHICAL BACKGROUNDS OF WESTERN RELIGION II 3.0
The inter-relationship of western religion with philosophy in the Renaissance, enlightenment and modern period. The emergence of the autonomous spirit of criticism.
- R 1599 460
SEMINAR IN WORLD RELIGIONS 3.0
Cooperative research seminars in major movements, problems, theologians or works. Topic announced each semester.
- R 1599 462
SEMINAR IN RELIGION 3.0
Cooperative research seminar in major movements, problems, theologians.
- R 1599 465
SEMINAR IN RELIGION AND CULTURE 3.0
Cooperative research seminars in major movements, problems, theologians. Topics announced each semester.
- R 1599 467
SEMINAR IN RELIGIOUS THOUGHT 3.0
Cooperative research seminars in major movements, problems, theologians or works. Topic announced each semester.
- R 1599 490
INDEPENDENT STUDY IN RELIGION 3.0
Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.
- R 1599 492
INDEPENDENT STUDY IN RELIGION 3.0
Directed independent study and research in religious studies to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.
- R 1599 495
INDEPENDENT STUDY IN RELIGION 3.0
Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.
- R 1599 497
INDEPENDENT STUDY IN RELIGION 3.0
Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.



Physical Education

Chairperson: Joan Schleede

Physical fitness is an essential element in each person's life. Those who graduate with the Bachelor of Science Degree in Physical Education may choose either teacher education or adult fitness, a non-teaching specialization. Students concentrate within the major in a variety of areas which equip them for employment in schools, agencies or corporations where fitness is recognized as essential. Physical Education gives students a broad range of activities which develop self-expression and skills for leisure, as well as a high level of physical fitness.

Physical Education (Teacher Education)

Required Courses

	Semester Hours
0835 100 Orientation to P.E. Profession	1
0835 220 Physiology of Exercise.....	2
0835 221 Kinesiology	2
0835 222 Basic Motor Learning.....	2
0835 243 Organization and Administration of P.E.	2
0835 351 Adapted Physical Education	3
0835 352 Development, Philosophy and Principles of P.E. (Juniors and Seniors only).....	3
0835 355 Measurement and Evaluation (Juniors and Seniors Only)	3

Activity Courses..... 17

Collateral Courses:

0837 101 Health for Personal Living	3
1905 107 College Chemistry I	2
1905 108 College Chemistry II.....	2
0401 240 Mammalian Anat. + Physiology I.....	3
0401 241 Mammalian Anat. + Physiology II	3

Concentrations Within the Major

Students are required to select a concentration. Each requires 15 sh of course work.

INDIVIDUALIZED FITNESS PROGRAMS FOR SPECIFIC POPULATIONS

Required Courses

	Semester Hours
0835 131 Fitness Activities.....	1
0879 251 Aerobic Activities.....	1
0879 257 Weight Training and Conditioning.....	1
0879 263 Jogging	1
or	
0879 278 Yoga.....	1

Electives (departmental)

Select 11 sh from the appropriate list to be obtained
from the department 11

COACHING

Required Courses

0835 150 Principles and Practices of Emergency Care.....	2
0835 226 Coaching — Principles and Problems.....	3
0835 227 Psychology of Sport.....	3
Select at least 1 but no more than 2	
0835 301 Coaching Field Hockey	2
0835 303 Coaching Basketball.....	2
0835 304 Coaching Softball.....	2
0835 306 Coaching Baseball.....	25
0835 308 Coaching Football.....	2
0835 309 Coaching Soccer	2
0835 310 Coaching Swimming and Diving	2
0835 313 Men's Competitive Gymnastics	2
0835 314 Women's Competitive Gymnastics	2
0835 317 Coaching Volleyball.....	2
0835 322 Coaching Golf.....	2
0835 330 Coaching Tennis	2
0835 332 Coaching Wrestling.....	2
0835 333 Coaching Track and Field.....	2

Electives (departmental)

Select 3-5 sh from the appropriate list to be obtained
from the department. 3-5

ATHLETIC TRAINING

Required Courses

Select 10 sh	
0835 223 Basic Prevention and Care of Athletic Injuries....	3
0835 323 Advanced Prevention and Care of Athletic Injuries.....	3
0835 379 Internship in Athletic Training.....	4

Electives (departmental)

Select 5 sh from the appropriate list to be obtained
from the department 5

INDIVIDUAL CONTRACT

Individualized 15 sh program prepared consultation with an advisor and approved by the department chairperson if existing concentration areas do not meet the student's needs. This concentration must be approved prior to any course selection.

Additional Electives (all concentrations)

Select one with permission from advisor and department chairperson.

	Semester Hours
0835 380 Internship in Physical Education	4-8
0835 381 Cooperative Education in Physical Education	4-8
0835 399 Independent Study in Physical Education	1-6
0835 392 Selected Topics in Physical Education	1-3
Electives (general)	2

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching.

The Physical Education department has specific requirements for admission to the Teacher Education program. They include: A professional experience in each of 4 activity courses for a total of 8 visits to be completed prior to application to Teacher Education. The observations may be in any of the following: Team Sports, Individual and Dual Activities, Elementary School School Activities, Rhythm and Dance. Observations must be made in public school and in a class situation. Minimum GPA 2.45 over-all.

Minimum GPA, 2.67 in Physical Education specialization courses.

Minimum 15 sh in specializations by the end of sophomore year. Transfer students need a minimum of 6 sh in Physical Education courses at Montclair State College.

Adult Fitness

(Non-Teaching Certification)

Required Courses

0835 100	Orientation to Physical Education Professions.....	1
0835 243	Organization and Administration of Physical Education	2
0835 220	Physiology of Exercise.....	2
0835 221	Kinesiology	2
0835 222	Basic Motor Learning.....	2
0835 351	Adapted Physical Education	3
0835 352	Development of Philosophy and Principles of Physical Education.....	3
0835 355	Measurement and Evaluation in Physical Education	3

Activity Courses..... 17

Theory Specialization Core 25-27

0835 150	Prin./Pract. Emerg. Care	2
or		
0835 223	Basic Prev. & Care/Athl. Trn.	3
0835 275	Found. & Pract. Card. Rehab.	3
or		
0835 340	Fitness & Aging Process.....	4
0835 380	Internship in P.E.	8
or		
0835 381	Cooperative Education in P.E.....	8
0835 101	Introduction to Business.....	3
1306 182	Nutrition.....	3
0842 431	Indiv. Group Dyn.	3
0509 340	Marketing Process	3

Physical Education and Health Dual Teacher Certification Requirements

Required Courses

Physical Education Theory	18
(same as for Physical Education)	
Activity.....	17
(same as for Physical Education)	
Health (Health for Personal Living is included).....	24
0837 290 Human Sexuality.....	3
0837 411 The School Health Program	3
0837 401 Teaching of Health.....	3
0837 413 The Drug Abuse Problem	3
Select One	
0837 210 Consumer Health.....	3
0837 220 Mental Health.....	3
0837 240 Foundations of Environmental Health	3
Select Two	
0837 305 Communicable Diseases.....	3

0837 310	Chronic and Degenerative Diseases.....	3
0837 315	Community Health	3

Professional Sequence for Teacher Education 30

The sequence is the same as for Physical Education Major *except* both Health Teaching and Physical Education Teaching are required in the supervised student teaching.

Courses of Instruction

8 0835 100	ORIENTATION TO THE PHYSICAL EDUCATION PROFESSION	1.0
	A professional orientation and an introduction to the breadth of the field of physical education in schools, industry and community agencies.	
8 0835 101	FIELD HOCKEY	1.0
	Individual skill development in hockey analysis of individual skills, team tactics, and defensive strategy and rules practical application in game situations.	
8 0835 102	SOCCER	1.0
	The history, development and present status of the sport. Basic skills, game strategy, rules, terminology and specifics concerning class organization, safety and evaluation will be presented.	
8 0835 103	BASKETBALL	1.0
	Learning experiences in the skills and techniques of basketball rules, offensive and defensive team strategy.	
8 0835 104	SOFTBALL	1.0
	Skills, techniques, rules and concepts of team play and strategy essential to this sport and playing the game.	
8 0835 106	BASEBALL	1.0
	Methods, theory, skill testing and class organization for effective teaching of baseball.	
8 0835 108	FOOTBALL	1.0
	The history, development and present status of the sport, basic skills and game strategy, rules and specific techniques concerning class organization, safety and evaluation.	
8 0835 110	AQUATICS	1.0
	For those with a minimum amount of aquatic knowledge and skill. Swimming strokes, water stunts and springboard diving. Organization for teaching groups and safety precautions.	

- 8 0835 111
LIFESAVING 1.0
 Developing individual skill and confidence in lifesaving and water safety skills. Open to undergraduate women and men. Prerequisites: 1. Perform standing front dive 2. Swim 440 yds. continuously using various strokes 3. Dive from surface to minimum depth of six feet and swim 15 feet underwater 4. Tread water one minute.
- 8 0835 112
WATER SAFETY INSTRUCTION 1.0
 This course follows the standards and procedures for certification by the American Red Cross.
Pre-requisite: a current A.R.C. Senior Life Saving Card.
- 8 0835 113
MEN'S GYMNASTICS AND TUMBLING 2.0
 Develop skill in tumbling and gymnastics and demonstrate an understanding of skill. Levels appropriate for all grade levels. Safety measures concerning the equipment and spotting.
- 8 0835 114
WOMEN'S GYMNASTICS AND TUMBLING I 2.0
 Developing skills on the apparatus; demonstrating an understanding of skills for elementary through high school. Safety measures related to equipment and spotting. Students perform progression for basic skills on all equipment.
- 8 0835 115
LACROSSE 1.0
 The history, development, and present status of the sport will be studied. The student will develop basic skills and learn game strategy, rules and specific techniques concerning class organization, safety and evaluation.
- 8 0835 116
VOLLEYBALL 1.0
 The student is provided with the history, development, and present status of the sport, analysis of Basic skills, game strategy, rules, terminology, plus specifics concerning class organization, safety and evaluation.
- 8 0835 118
WOMEN'S GYMNASTICS AND TUMBLING II 2.0
 To provide the student with knowledge of and skill in advanced techniques in women's gymnastics and tumbling, applicable for secondary school students. Spotting and safety measures will be emphasized.
Pre-requisites: Performance required prior to registration. May be taken in lieu of women's gymnastics and tumbling. Consult the Dept. Chairperson first.
- 8 0835 120
BOWLING 1.0
 The history, rules, techniques, strategies, terminology and rules are discussed and students attend classes at bowling alleys for practical experience.
- 8 0835 122
GOLF 1.0
 To permit students to attain the minimum skill necessary for understanding the fundamentals of this sport.
- 8 0835 124
BADMINTON 1.0
 A comprehensive analysis of the techniques and skills of each sport, current trends, rules, terminology, equipment and game strategy.
- 8 0835 126
ARCHERY 1.0
 The development and present status of archery, basic skills, tournament strategy and rules.
- 8 0835 128
FENCING 1.0
 The history, rules, skills, progression and teaching techniques of fencing.
- 8 0835 130
TENNIS 1.0
 The development and present status of this sport, basic skills, learn game strategy and rules.
- 8 0835 131
FITNESS ACTIVITIES 1.0
 A sound developmental program designed both for the individual who is below par in strength or physical capacity and for the conditioned individual.
- 8 0835 132
WRESTLING 1.0
 The history, development and present status of wrestling, basic skills, strategy, rules and specific techniques concerning class organization safety and evaluation.
- 8 0835 134
TRACK AND FIELD 1.0
 Techniques for performance and analysis of all track and field activity, including cross-country.
- 8 0835 140
MOVEMENT EDUCATION AND RHYTHM 1.0
 Each student recognizes and develops one's own innate capacities for natural, coordinated movement. As a basis for any physical education activity, this course presents theory, materials, and methods, for the teaching of correct movement and rhythm in the secondary schools. Creativity will be encouraged and the use of percussion instrument and other media for accompanying movement will be taught.
- 8 0835 141
AMERICAN FOLK AND SQUARE DANCE 1.0
 Skills and teaching methods in folk and square dance. The student will also experience calling a square dance.
- 8 0835 142
EUROPEAN FOLK DANCE 1.0
 This course will cover beginning to advanced dances from the various European countries.
- 8 0835 143
SOCIAL DANCE 1.0
 The fundamentals of social dance are presented to the student.
- 8 0835 150
PRINCIPLES AND PRACTICES OF EMERGENCY CARE 2.0
 This is a combined lecture and practical course designed to acquaint the student with purposes and principles of safety in contemporary society and the handling of emergency situations of illness or accident.
- 8 0835 201
ADVANCED FIELD HOCKEY 1.0
 The student is provided with advanced skills and team strategies of the game. Analysis of skills, actual teaching experience, will be emphasized along with selection and care of equipment.
- 8 0835 203
ADVANCED BASKETBALL 1.0
 An analysis of the individual skills of basketball, game concepts, instructional techniques and basic team strategies.

- 8 0835 204
ADVANCED SOFTBALL 1.0
This course will deal with advanced skills and team strategies. Theory, skills and concepts of the game in a practice situation.
- 8 0835 216
ADVANCED VOLLEYBALL 1.0
Advanced skills, various offensive and defensive strategies, advanced team play. Practice procedures, formation, techniques and evaluation criteria with regard to class organization.
- 8 0835 220
PHYSIOLOGY OF EXERCISE 2.0
The physiological effects of activity upon the human organism. The reaction of exercises of speed, strength and endurance upon the circulatory, respiratory and muscular systems. The causes of fatigue, staleness and exhaustion.
Pre-requisites: W 0401 244, 0401 248, 0401 249, 0401 251.
- 8 0835 221
KINESIOLOGY 2.0
In depth analysis of the anatomy of the skeletal and muscular systems. The physical principles of movement and the anatomical derivation of motion utilizing this knowledge in teaching and coaching.
Pre-requisites: W 0401 244, W 0401 245, W 0401 248, W 0401 249.
- 8 0835 222
BASIC MOTOR LEARNING 2.0
The physical and psychological factors related to motor learning in physical education activities. The role of the teacher in facilitating motor skill development.
Pre-requisites: W 0401 244, W 0401 245, W 0401 248, W 0401 249.
- 8 0835 223
BASIC PREVENTION AND CARE OF ATHLETIC INJURIES 3.0
Introduction to aspects of sports medicine which are necessary to the safe conduct of sports. The physiological and medical bases of treatment, management procedures and skills in the application of treatment. Medical and safety problems, protective equipment and facilities, training techniques, and nutrition and diet. For men and women. Lecture as well as training room experience.
- 8 0835 224
CAMPING AND OUTDOOR EDUCATION 2.0
This dual course introduces the student to outdoor education and camping. A basic view of the outdoor education field, especially as it relates to elementary and secondary education. Introduction to recreational (individual and small group), and organized camp.
- 8 0835 225
DANCE AND RHYTHMS FOR ELEMENTARY SCHOOL CHILDREN 2.0
Materials and methods for the teaching dance and other rhythm activities for elementary school children. Development of effective rhythm and dance programs. A minimum of 6 hours of practical experience with children is required.
Pre-requisites: 8 0835 140.
- 8 0835 226
COACHING — PRINCIPLES AND PROBLEMS 3.0
A practical guide to ethics, principles and organizational problems of coaching. Provides the beginning coach with the information necessary to help him deal effectively with common problems of athletic competition.
- 8 0835 227
SPORT IN SOCIETY 3.0
A macro-analysis of sport in society, dealing with sport and physical activity as a sociological phenomenon, emphasizing the heritage of sport in America and abroad, socio-economic dimensions of sport and minorities in sport.
- 8 0835 230
MODERN DANCE IN PHYSICAL EDUCATION 1.0
This course is designed to provide the physical education student with the skills and knowledge to teach a basic unit in modern dance in the schools.
- 8 0835 235
PHYSICAL EDUCATION ACTIVITIES IN THE ELEMENTARY SCHOOL 2.0
To provide the student with information concerning the physical, social, intellectual and emotional characteristics of the elementary school child, and the selection and teaching of appropriate non-sport activities in physical education.
- 8 0835 240
GYMNASTICS FOR ELEMENTARY SCHOOL 2.0
The methods and materials in gymnastics for elementary schools through a sensorimotor approach to learning and performance.
Pre-requisites: 8 0835 113 or, 8 0835 114.
- 8 0835 241
MEN'S GYMNASTICS FOR SECONDARY SCHOOL 2.0
Methods and materials in gymnastics for secondary school physical education. The organization of gymnastic movements for learning according to their similarities in difficulty and execution. The role of the teacher in facilitating skill development in gymnastics.
Pre-requisites: 8 0835 113 or 0835 114.
- 8 0835 242
WOMEN'S GYMNASTICS FOR SECONDARY SCHOOL 2.0
Methods and materials in gymnastics which are applicable for teaching in the secondary schools. Methods of teaching tumbling and apparatus work.
Pre-requisites: 8 0835 113 or 0835 114.
- 8 0835 243
ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION 2.0
Legislation, financing, plant facilities, care and purchase of supplies and equipment, office management and records, intramural programming and tournaments, and conduct of varsity sports.
- 8 0835 301
COACHING FIELD HOCKEY 2.0
Concepts and organizational procedures for coaching field hockey skills, offensive and defensive strategies and rules.
- 8 0835 303
COACHING BASKETBALL 2.0
Coaching basketball at all levels of competition. Individual advanced skills, team strategies and educationally sound coaching techniques.
- 8 0835 304
COACHING SOFTBALL 2.0
Concepts and organizational procedures for coaching softball. Skills, offensive and defensive strategies and rules.
- 8 0835 306
COACHING BASEBALL 2.0
Individual skills and team techniques of coaching baseball administration and organization of practice sessions for effective learning.

8 0835 308
COACHING FOOTBALL 2.0
 Techniques and methods of coaching football with emphasis on team play. Offensive and defensive methods for running, passing and kicking game. Complete organization of a football program is presented.

8 0835 309
COACHING SOCCER 2.0
 The fundamental concepts of coaching soccer on the interscholastic level physiological and psychological effects of participation.

8 0835 310
COACHING SWIMMING AND DIVING 2.0
 Practical knowledge of coaching swimming and diving. Coaching theory, the perfecting of skills and conditioning procedures.

8 0835 312
AQUATIC ART 2.0
 The creative development of strokes, stunts, and styles of swimming utilized in aquatic art. Patterns, formations, staging, costuming, selection of music and conditioning and training techniques.

8 0835 313
MEN'S COMPETITIVE GYMNASTICS IN SCHOOLS 2.0
 For the student who desires to become a special teacher or coach of advanced gymnastics. The terminology of the sport, training methods, current trends in requirement for performance, organization and the fig rules. Methods of teaching and the application of sound safety procedures. Advanced gymnastics examined critically in the light of physiological and mechanical factors.
Pre-requisites: 8 0835 113 or 0835 114.

8 0835 314
WOMEN'S COMPETITIVE GYMNASTICS IN SCHOOLS 2.0
 Coaching competitive gymnastics, women's gymnastics, dance in gymnastics, training methods on the four olympic events, techniques and skill analysis.
Pre-requisites: 8 0835 113 or 0835 114.

8 0835 317
COACHING VOLLEYBALL 2.0
 Advanced playing strategies and information for coaching the advanced student at high levels of competition. Philosophy of coaching, characteristics and responsibilities of a coach.

8 0835 322
COACHING GOLF 2.0
 Methods and techniques of coaching golf. Medal and match playstrategy. The organization of a complete golf program, drills, fundamental strokes, rules and etiquette. Acceptance

8 0835 323
ADVANCED PREVENTION AND CARE OF ATHLETIC INJUIRES 3.0
 Designed to provide the student with in-depth information and practical experience in prevention, care and rehabilitation of athletic injuries. Individuals selecting this course should be preparing to become certified trainer (NATA).
Pre-requisites: 8 0835 223.

8 0835 330
COACHING TENNIS 2.0
 The techniques and methods of coaching tennis. Strategy of single and doubles play. Complete organization of a tennis program, including a review of basic strokes, drills, rules and tennis etiquette. Planning, scheduling and organization of tournaments and inter-school competition.

8 0835 332
COACHING WRESTLING 2.0
 Techniques and methods of coaching wrestling. Emphasis on developing programs, mat tactics and strategy.

8 0835 333
COACHING TRACK AND FIELD 2.0
 Integrating philosophy, psychology, principles and techniques of track and field activities with actual practice. For men and women with appropriate concentrations as well as a common core of activities.
Pre-requisites: 8 0835 134, or permission of instructor.

8 0835 340
FITNESS AND THE AGING PROCESS 4.0
 The course will deal with the physiological, emotional and social changes experienced by the older adult as he/she moves through the aging process. The student will be helped to assess fitness needs based on these findings and to select appropriate activities. Methods and techniques for communicating with and teaching the older adult will be an important part of the course content. Field trips and observations of older adult activities will also be included.
Pre-requisites: W 0401 244, W 0401 241, 8 0835 220, W 0401 248, W 0401 249.

8 0835 351
ADAPTED PHYSICAL EDUCATION 3.0
 A lecture and participation course covering the philosophy and goals of adapted physical education for children with handicaps. A minimum of 3 hours per week of clinical experience in schools, clinics and-or hospitals is required.
Pre-requisites: W 0401 244, W 0401 245, W 0401 248, W 0401 249.

8 0835 352
DEVELOPMENT, PHILOSOPHY AND PRINCIPLES OF PHYSICAL EDUCATION 3.0
 History and development from primitive to modern times. Principles of physical education in the light of scientific knowledge, aims and objectives. The place in the total education program. May not be taken until the junior year.

8 0835 355
MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION 3.0
 Tests and measurements specifically concerned with the area of physical education. Tests and measurements as tools for better teaching as well as for research. Open to juniors and seniors only.

8 0835 357
TEACHING OF PHYSICAL EDUCATION 4.0
 Methods of teaching and principles of learnings as they apply to growth, development and movement. Urban, inner city, suburban and rural situations and conditions related to learning facilities and equipmentsite: teacher education.

8 0835 359
ORGANIZATION AND ADMINISTRATION OF ATHLETICS 2.0
 For those who expect to become teachers, supervisors and athletic directors. Athletics eligibility, management, equipment, records, intramural programming and tournaments, awards, finances, budgets, safety, maintenance, planning of facilities, junior and senior high school athletic trends.

8 0835 361
PHYSICAL ACTIVITY FOR EMOTIONALLY HANDICAPPED 2.0
 Identifying the levels of emotional handicaps experienced by children. Understanding psychological and social needs. Activities suitable for meeting the needs of these children.

8 0835 362
PHYSICAL ACTIVITY FOR THE MENTALLY HANDICAPPED 2.0
 Current practices, problems, legislation and financing of programs for the mentally retarded. Developing a physical activity program to meet the needs of the educable and trainable mentally retarded.

8 0835 363
PHYSICAL ACTIVITY FOR THE SENSORY HANDICAPPED 2.0
 Provides information concerning the needs of those with sensory handicaps and some understanding concerning their social and psychological needs and present materials in physical education activities suitable for each handicap.

8 0835 375
FOUNDATIONS AND PRACTICES IN CARDIAC REHABILITATION 3.0
 Knowledge and skills related to cardiac rehabilitation which is necessary for working with post-cardiac individuals in the post-hospital continuing exercise program. Students will be expected to demonstrate a high level of competence in all aspects of the course. *Pre-requisites: 8 0835 220, W 0401 244, W 0401 245, W 0401 248, W 0401 249, Instructor's Permission.*

8 0835 379
INTERNSHIP IN ATHLETIC TRAINING 4.0
 Designed for the student interested in becoming certified as a trainee (NATA). Through an internship program the student will be provided the opportunity to apply the background information obtained in both basic and advanced prevention and care of athletic injuries course. The proposed course will also meet the NATA requirement for field experience. This course available to students not completing the student teacher experience only. *Pre-requisites: 8 0835 150, 8 0835 223, 8 0835 323.*

8 0835 380
INTERNSHIP IN PHYSICAL EDUCATION 4-8.0
 Intended only for those students who have tentatively identified a career goal. Experience selected will be closely related to the career aspiration of the student. On-the-job experiences in the areas of organizations and agencies where professional competency will be utilized as related to the career goals of the student. Available to students not completing the student-teacher sequence only. *Pre-requisite: Minimum of 60 S.H. completed.*

8 0835 381
COOPERATIVE EDUCATION IN PHYSICAL EDUCATION 4-8.0
 Integrates academic study with supervised employment outside the formal classroom environment. The co-op term is a semester off-campus during which a student, while supervised by a department faculty coordinator is responsible for completing the terms of a predetermined learning contract. Available to students not completing the student-teacher sequence only. *Pre-requisites: 60 S.H. completed, 2.45 G.P.A., 2.67 major G.P.A. or instructor's permission.*

8 0835 399
INDEPENDENT STUDY IN PHYSICAL EDUCATION 1-6.0
 Provides an opportunity to pursue independent study in one of the specialized areas of physical education.

8 0835 492
SELECTED TOPICS IN PHYSICAL EDUCATION 1-3.0
 A theoretical and practical in-depth study in a current aspect of physical education. Topics will be determined prior to course offering and publicized.

NON-MAJOR COURSES

8 0879 200
BEGINNING SWIMMING 1.0
 Fundamentals strokes of swimming and safety in the water are stressed.

8 0879 201
SPRINGBOARD DIVING 1.0
 Techniques of springboard diving. Progression of skills and safety measures will be emphasized. Pre-requisites: Completion of a swimming course offered at M.S.C. with a minimum of a grade B or permission of instructor.

8 0879 202
BADMINTON 1.0
 The history, techniques, strategies, terminology and rules of badminton are discussed.

8 0879 203
GOLF 1.00
 To permit the student to attain the minimum skill necessary for enjoying this individual type of game.

8 0879 204
ETHNIC AND CULTURAL ASPECTS OF PHYSICAL ACTIVITY 2.0
 This course will involve the student in study of ethnic style philosophy and culture of international dance. The development of folk festivals. A study of folklore arts of geographical areas. A study of an experimentation with unusual recreational and sport activities from other countries. The development of performance skills will be a part of the course.

8 0879 227
ANATOMICAL AND PHYSIOLOGICAL FOUNDATIONS OF COACHING 3.0
 Designed for the non-physical education major who desires to coach athletics.

8 0879 228
MECHANICS OF ATHLETIC PERFORMANCE 3.0
 Designed for the non-physical education major who is interested in athletic coaching. *Pre-requisites: 8 0835 220, 8 0879 227.*

8 0879 229
WOMEN IN SPORT 3.0
 This course traces a variety of factors that have affected the development of sports participation for women.

8 0879 240
PLATFORM TENNIS 1.0
 The origin, development and present status in the sport of platform tennis will be studied. Basic skills, game strategy, and rules will be taught and applied.

8 0879 242
RACQUETBALL 1.0
 The origin, development, and present status in the sport of racquetball will be studied. Basic skills, game strategy, and rules will be taught and applied.

8 0879 250
INTERMEDIATE SWIMMING 1.0
 This course is designed for men and women who have at least a minimum amount of aquatic knowledge and skill. The scope of the course will cover a wide area of swimming strokes, water stunts, and springboard diving. Organization for teaching groups and safety procedures will also receive emphasis.

8 0879 251	
AEROBIC ACTIVITIES	1.0
The development of movement patterns, endurance and cardiovascular fitness emphasized.	
8 0879 252	
ARCHERY	1.0
Fundamentals, and use of archery as a leisure pursuit.	
8 0879 253	
GYMNASTICS	1.0
Gymnastics and conditioning and development of skills in gymnastic movements.	
8 0879 257	
WEIGHT TRAINING AND CONDITIONING	1.0
For developing strength and general body conditioning.	
8 0879 258	
TENNIS	1.0
Fundamental skills of tennis, singles and doubles play. Appreciation of tennis as a leisure pursuit.	
8 0879 260	
BEGINNING RIDING	1.0
Techniques for the beginner. Taught at a riding academy.	
8 0879 261	
FENCING	1.0
Fundamentals of fencing. Understanding of fencing as a sport.	
8 0879 262	
VOLLEYBALL	1.0
Basic skills, game strategy and rules taught. Power volleyball for more advanced players.	
8 0879 263	
JOGGING	1.0
Proper techniques for jogging stressed, development of cardiovascular fitness through progressive running.	
8 0879 264	
SOCCER	1.0
The origin, development, and present status of soccer will be studied. Basic skills, game strategy, and rules will be taught and applied. As a service course to non-physical education majors, the principle aim is to introduce the student to the fundamentals of soccer.	
8 0879 265	
FIGURE SKATING	1.0
Figure skating for the novice taught at an off-campus skating rink.	
8 0879 266	
SKIING	1.0
The student is provided with information pertaining to basic techniques, safety, etiquette, and equipment relevant to his level of skiing. Instruction will be given on the slope for five weeks along with additional information to be given on campus. An additional fee is required for lift tickets and rental equipment.	
8 0879 267	
ADVANCED SWIMMING	1.0
This course is designed for men and women who have at least a minimum amount of knowledge and skill to move comfortably in deep water.	
8 0879 268	
BICYCLING	1.0
Bicycle safety, care of the bicycle and skill in riding a bicycle in a variety of situations.	

8 0879 270	
FOLK AND SQUARE DANCE	1.0
This course covers the history, techniques and styles of a wide variety of folk and square dances.	

8 0879 271	
SOCIAL DANCE	1.0
The course covers the traditional ballroom dances as well as current popular styles and routines.	

8 0879 272	
BOWLING	1.0
Scoring, league play, and the use of bowling as a leisure pursuit.	

8 0879 274	
SCUBA DIVING	1.0
Scuba diving techniques and safety.	

8 0879 275	
BEGINNING KARATE	1.0
Beginning karate. Skills and development of personal ability in performance of the activity.	

8 0879 278	
YOGA	1.0
Instruction will be given in how to perform yoga postures, plus the techniques of breathing, relaxation, awareness, and concentration, with their proper progression. The historical and psychological factors involved in the development of yoga, and its increasingly widespread appeal physically and philosophically will be dealt with.	

Physics and Geoscience

Chairperson: Richard Hodson

Part of the Physics-Geoscience Department tradition is that a professor works with classes in the laboratory. This, plus a favorable student-faculty ratio, allows personal contact between student and professor. One is free to consult professors about course material, for guidance, or just to exchange ideas.

The department offers separate major programs in geoscience and physics, plus teacher certification. Minors offered in either physics or geoscience are especially useful to computer science or applied mathematics majors.

All programs are designed to provide substantial well-rounded preparation for students planning to enter graduate school, research, industry, or teaching.

Students entering this department should have an exposure to biology, chemistry and physics, plus three years of college preparatory mathematics. The physics major should have four years of college preparatory mathematics.

Geoscience Major

REQUIRED COURSES

	Semester Hours
1914 112 Physical Geology	4
1914 114 Historical Geology	4
1914 431 Invertebrate Paleobiology.....	4
1914 434 Stratigraphy	4
1914 443 Mineralogy	4
1914 444 Petrology.....	4

Collateral Courses

1905 120, 121 General Chemistry I, II	4 ea.
1902 103, 104 College Physics I, II	4 ea.
Select two courses in mathematics from the list of 4 below:	
1701 115 Introduction to Mathematical Analysis	3
1701 116 Calculus A	4
1701 122 Calculus I	4
1701 221 Calculus II.....	4
Recommended in addition to the above:	
0701 183 Foundations of Computer Science I	3
1701 109 Statistics	3

Electives (departmental)

Select 14 sh from the appropriate list to be obtained from the department.....14

Geoscience Minor

Required Courses

	Semester Hours
1914 112 Physical Geology	4
1914 114 Historical Geology	4
Select one sequence	
1914 431 Invertebrate Paleobiology.....	4
1914 434 Stratigraphy	4
or	
1914 443 Mineralogy.....	4
1914 444 Petrology.....	4

Electives (departmental)

Select 3 sh from the appropriate list to be obtained from the department.....3

Physics Major

REQUIRED COURSES

	Semester Hours
1902 101, 102 General Physics I, II	4 ea.
1902 210 Mechanics	4
1902 240 Electricity and Magnetism	4
1902 350 Optics	4
1902 460 Modern Physics.....	4

Collateral Courses

1905 120, 121 General Chemistry I, II	4 ea.
Select 4	
1701 115 Introduction to Mathematical Analysis	3
1701 122, 221, 222 Calculus I, II, III.....	4 ea.
1701 420 Differential Equations.....	3 ea.
Recommended in addition to the above:	
0701 183 Foundations of Computer Science I	3

Electives (departmental)

Select at least one course from the appropriate list to be obtained from the department.

Physics Minor

Required Courses

1902 101, 102 General Physics I, II	4 ea.
1902 240 Electricity and Magnetism	4
Plus either Option A or Option B:	
Option A	
1902 210 Mechanics	4
1902 Physics elective	3
Option B	
Select two	
1902 242 Circuit Theory	3
1902 245 Electronics and Digital Techniques.....	4
1902 247 Microprocessors and Their Applications	4

19

Teacher Certification

Students who successfully complete a departmental major program, the teacher certification professional sequence, one biology course (0401 0105, 0120, 0130, or 0140) and 0834 0401 "The Teaching of Science in Secondary Schools" will qualify for the Comprehensive Science Teaching Certificate. In addition, Geoscience majors will qualify for the Earth Science Teaching Certificate, while Physics majors will qualify for the Physical Science Teaching Certificate.

Check carefully the section on admission and requirements for the Teacher Education Program in the department of Curriculum and Teaching.

Second Teaching Field in Geoscience

Required Courses

	Semester Hours
1914 112 Physical Geology	4
1914 114 Historical Geology	4
1914 457 Meteorology	4
1902 280 Astronomy	4
1914 360 Oceanography	4

Electives (departmental)

Select 5 sh from the appropriate list to be obtained from the department.....5

Second Teaching Field in Physical Science

Students majoring in a field other than physics and who wish certification in Physics may take the Physical Science pro-

gram. In addition to the certification program in their major they must take the following:

1902 101, 102	General Physics I, II	4 ea.
	Physics Elective	4
1905 120, 121	General Chemistry I, II	4 ea.
1905 230	Organic Chemistry I	3
1905 232	Experimental Organic Chemistry I	2

Courses of Instruction

Z 0834 401

THE TEACHING OF SCIENCE IN SECONDARY SCHOOLS

3.0

The purposes are to review the educational objectives of science in the public schools to consider a program of science instruction for secondary schools including the new programs to study aids to instruction such as texts, manuals, workbooks, tests and enrichment materials. To make a critical review of evaluation in science classes and to investigate the various special methods of teaching applicable to science instruction.

Z 0834 409

SENIOR HIGH SCHOOL PHYSICAL SCIENCE DEMONSTRATIONS

2.0

This course furnishes teachers of the physical sciences with demonstrations and experiments designed for work in high school chemistry, physics, and applied physical science courses. A detailed study of demonstrations is made with emphasis on visibility and avoidance of failure. Emphasis is placed on sources of new demonstrations for the teacher.

Z 0834 410

JUNIOR HIGH SCHOOL SCIENCE DEMONSTRATION

4.0

This course covers the methods of experimental instruction appropriate to grades seven, eight, and nine. A detailed study is made of demonstrations for general science at their levels.

Z 0834 460

MARINE SCIENCE EDUCATION

2.0

Selected fields experiences and laboratory methods utilized to develop resources from the marine environment to be used in teaching the various disciplines. Offered at the site of the New Jersey Marine Sciences Consortium.

Pre-requisite: Undergraduate Science Major sequence, including a 400 level oceanography course and a science methods course, or permission of instructor.

Z 1902 101

GENERAL PHYSICS I

4.0

Calculus based course: study of kinematics, dynamics through energy and linear momentum, rotation, harmonic motion and heat. Lecture-demonstrations, problem solving sessions and laboratory experiences. (3 hrs. lecture, 2 hrs. laboratory).

Pre-requisite: Y 1701 115 or concurrent.

Z 1902 102

GENERAL PHYSICS II

4.0

Calculus based course: Mechanical vibrations, sound, optics, electricity and magnetism. Lecture-demonstrations, problem solving sessions and laboratory experiences.

Pre-requisite: Y 1701 122 or concurrent.

Z 1902 103

COLLEGE PHYSICS I

4.0

Non-calculus course for non-physical science majors; Laboratory experiences; mechanics, heat, fluids. (3 hrs. lecture, 2 hrs. laboratory).

Z 1902 104

COLLEGE PHYSICS II

4.0

Non-calculus course for non-physical science majors; Laboratory experiences; geometric optics, waves and physical optics, electricity and magnetism, atoms and radioactivity. (3 hrs. lecture, 2 hrs. laboratory).

Z 1902 107

ELEMENTARY PHYSICS FOR HOME

3.0

A laboratory course developing basic principles in the construction, operation and performance of Home instruments and utensils. Mechanical, electrical and optical properties of appliances. Plumbing, insulation and energy conservation.

Z 1902 210

MECHANICS

4.0

Classical mechanics: kinematics, Newton's laws, impulse and momentum, statics, work and energy, oscillations, general motion, central force motion, non-inertial frames, system of particles, methods of handling data. (3 hrs. lecture, 2 hrs. laboratory).

Pre-requisites: Z 1902 101, Z 1902 102, Y 1701 221 or concurrent.

Z 1902 240

ELECTRICITY AND MAGNETISM

4.0

Basic principles of electromagnetism: Coulomb's law and general techniques in electrostatics, currents and their associated magnetic field, electromagnetic induction and magnetic properties of materials. Foundations of Maxwell's equations (without detailed solutions). Laboratory experiments. (3 hrs. lecture, 2 hrs. laboratory).

Pre-requisites: Z 1902 102, Y 1701 222, or concurrent.

Z 1902 242

CIRCUIT THEORY

3.0

Introduces basic methods in circuit analysis and design. Topics include linear electric circuits and their response, circuit theorems, filters, fourier analysis of different inputs and outputs, and transmission lines. (2 hrs. lecture, 2 hrs. laboratory).

Pre-requisites: Y 1701 221, Z 1902 102, Z 1902 210 or 1701-420.

Z 1902 245

ELECTRONICS AND DIGITAL CIRCUITS

4.0

An introduction to the principles of amplifiers, waveform generators, and digital circuits, with emphasis on the use of commonly available integrated circuit packages. (3 hrs. lecture, 2 hrs. laboratory).

Pre-requisite: Z 1902 240.

Z 1902 247

MICROPROCESSORS AND THEIR APPLICATIONS

4.0

One semester course providing an introduction to the principles, operations and applications of microprocessors including experiment control and data manipulation. (3 hrs. lecture, 2 hrs. lab).

Pre-requisite: Z 1902 102 or 1902 104.

Z 1902 280

ASTRONOMY

4.0

Application of physical laws to the earth as a planet nature of the other planets orbital motion and space flight origin of the solar system the birth, life, and death of a star galactic structure and cosmology. (3 hrs. lecture, 2 hrs. laboratory).

Pre-requisites: Z 1902 101, 102 or Z 1902 103, 104, Y1 701 115.

Z 1902 310
ADVANCED MECHANICS 3.0
 Classical mechanics: Transformations; oscillators; generalized motion; Lagrange's equations; Hamilton's equation; small oscillations; wave propagation. (Offered alternate years).
Pre-requisites: Y 1701 222, Z 1902 210, Y 1701 420.

Z 1902 320
THERMODYNAMICS 3.0
 Thermodynamic systems; Laws of thermodynamics; entropy; kinetic theory; transport processes; statistical thermodynamics. (Offered alternate years).
Pre-requisites: Y 1701 222, Z 1902 210 or instructor's permission

Z 1902 340
ADVANCED ELECTRICITY AND MAGNETISM 3.0
 Dielectric materials, image calculations; Laplace's equation, magnetic materials and flux; A.C. networks; non-sinusoidal AC; transients and pulses; electromagnetic radiation. (Offered alternate years).
Pre-requisite: Y 1701 420 or Instructor's permission.

Z 1902 350
OPTICS 4.0
 Propagation of light, optical components, instruments and photometry. Interference, diffraction and polarization with elements of spectroscopy. (Offered alternate years.).
Pre-requisites: Y 1701 222, Z 1902 240.

Z 1902 377
MATHEMATICAL PHYSICS 3.0
 Vector analysis complex variables ordinary and partial differential equations, matrices. (Not offered every year.) Pre-requisite: 2 years of physics.
Pre-requisite: Y 1701 222.

Z 1902 410
FLUID MECHANICS 3.0
 The study of the mechanics of the continuous media. Topics will include: fluid statics; basic laws governing fluid systems and control volumes; viscous flows; dimensional analysis and similitude, and potential flow.
Pre-requisites: Z 1902 210, Y 1701 222.

Z 1902 460
MODERN PHYSICS 4.0
 Special relativity, Kinetic theory of matter; quantization of electricity, light and energy; nuclear atom; elementary quantum mechanics and topics on solid state. (Offered alternate years.)
Pre-requisites: Z 1902, 210, Z 1902, 240, Y 1701 222.

Z 1902 462
NUCLEAR PHYSICS 4.0
 Nuclear radiation; radioactive decay; detectors; nuclear spectroscopy and reactions; theories and models; fission, fusion, reactors and application of radio-isotopes. (Offered alternate years.)
Pre-requisites: Z 1902 210, Z 1902 240, Y 1701 222.

Z 1902 464
QUANTUM MECHANICS 3.0
 Shroedinger's wave equation, its application and interpretation; Pauli exclusion principle and spectra. (Offered alternate years.)
Pre-requisites: Y 1701 222, Z 1902 460, Z 1902 464.

Z 1902 470
SOLID STATE PHYSICS 3.0
 Properties of solid state matter are developed from the quantum mechanics of atoms and molecules. (Not offered every year.)
Pre-requisites: Y 1701 222, Z 1902 460.

Z 1902 490
LITERATURE RESEARCH IN PHYSICS 2.0
 Student considers topics in physics and gains facility in literature research techniques: topics in pure physics or related to physics education. Students intending to enroll in laboratory research in physics should use 1902 0490 to provide the literature research related to his/her laboratory problem. (Not offered every year.)
 Pre-requisite: At least 16 credit hours of physics beyond general physics.

Z 1902 495
LABORATORY RESEARCH IN PHYSICS 1-4
 Solution of a laboratory problem research in pure physics or in physics education written report required. (Not offered every year.) Pre-requisite: At least 16 credit hours of physics beyond general physics.

Z 1914 112
PHYSICAL GEOLOGY 4.0
 Materials of the earth. Land forms and structure. The processes and agents responsible for their formation and modification. Modern tectonic concepts. Topographic and geologic maps. Required field trips. Not open to students who have had principles of geology. (3 hrs. lecture, 2 hrs. laboratory).

Z 1914 114
HISTORICAL GEOLOGY 4.0
 Geological history of the earth; The evolution of North America in terms of the changing geography, climate and plant and animal life as interpreted from the rock and fossil record. Required field trips. (3 hrs. lecture, 2 hrs. laboratory).
Pre-requisites: Z 1914 112.

Z 1914 147
MINERALOGY OF GEM MATERIALS 3.0
 Mineralogy of gem materials through lectures, demonstrations and laboratory experience. Sources of gem materials. The cutting and polishing of gem materials. Not for major credit. (2 hours, lecture, 2 hours laboratory).

Z 1914 225
FUNDAMENTALS OF ENVIRONMENTAL GEOSCIENCE 3.0
 The study of the relationships between man and his physical habitat. Earth resources, processes and systems and the engineering properties of natural materials insofar as they are important to, effect, or are effected by human activities. Pollution of soil, water, and air will be discussed and analyzed. Field trips will be made to appropriate areas.
Pre-requisites: Z 4902 107OR, Z 4902 108OR, Z 1914 112.

Z 1914 231
FOSSILS OF NEW JERSEY 3.0
 The collection, preparations, identification and significance of New Jersey fossils. Basic principles of classification, morphology, evolution, paleoecology and stratigraphic distribution of fossil organisms. Required field trips. Not open to geoscience majors or to those who have taken invertebrate paleobiology.

Z 1914 238
THE GEOLOGY OF THE PLEISTOCENE
 The stratigraphy, geologic history and life of the pleistocene. Required field trips.
Pre-requisites: Z 4902 107 OR, Z 4902 108 OR, Z 1914 112.

Z 1914 250
MAP READING AND CARTOGRAPHY 3.0
 Principles of photogrammetry and the use of aerial photographs as a significant research method to recognize and evaluate earth environments and resources. (2 hrs. lecture, 2 hrs. lab).

- Z 1914 251**
AERIAL PHOTOGRAPH INTERPRETATION 3.0
 Principles of photogrammetry and the use of aerial photographs as a significant research method, to recognize and evaluate earth environments and resources. (2 hrs. lecture, 2 hrs. laboratory).
- Z 1914 252**
HYDROLOGY 3.0
 Water, its availability, distribution and usefulness. Hydrologic cycle examined in detail. Interaction with man and his usage. Applications to models and systematic processes. (Also listed as N 2206 252 Hydrology).
- Z 1914 254**
GEOMORPHOLOGY AND CLIMATOLOGY OF NORTH AMERICA 3.0
 Major controls of climate and the landforms of North America are analyzed in order to gain an understanding of how the continent compares and is related to the rest of the world. The basis and distinct characteristics of the subdivisions of North America are examined in order to bring out contrasts and unique features within the continent. (2 hrs. lecture, 2 hrs. laboratory).
- Z 1914 310**
ECONOMIC GEOLOGY 3.0
 Geology and geography of non-metallic and metallic mineral resources and fuels. Problems associated with their occurrence and exploitation. Required field trips. (Not given every year.)
Pre-requisites: Z 1914 112 or, Z 4902 108 and one additional 3 or 2 sh course in geoscience.
- Z 1914 320**
CONTEMPORARY PROBLEMS IN CONSERVATION OF NATURAL RESOURCES 3.0
 Designed to focus attention on specific environmental problem areas or utilization of resources through assigned readings which provide background for open class discussion.
Pre-requisites: Z 1914 220.
- Z 1914 352**
FLUVIAL GEOGRAPHY 3.0
 A detailed study of streams and rivers emphasizing processes causing variations in size and shape. The course analyses the morphology of stream channels. The course is quantitative and stresses processes. (Also listed as 2206 0352 Fluvial Geography.)
Pre-requisites: Z 4902 107, N 2206 100.
- Z 1914 360**
OCEANOGRAPHY 3.0
 Study of the physical and chemical properties of sea water, oceanic circulation, waves and tides, and estuarine and shoreline processes.
Pre-requisite: CRS in similar field or instructor's permission.
- Z 1914 410**
GEOLOGY OF NEW JERSEY 3.0
 The physical features of New Jersey and their origin, geologic history, stratigraphy, paleobiology, mineralogy, structural geology, economic geology. Required field trips. (2 hrs. lecture, 2 hrs. lab.).
Pre-requisites: Z 1914 112 or Z 4902 108 and at least 8 other credits in geology.
- Z 1914 431**
INVERTEBRATE PALEOBIOLOGY 4.0
 Invertebrate fossils, their classification, morphology, evolution, stratigraphic distribution and paleoecology. Required field trips.
Pre-requisites: Z 1914 114, W 0401 130 or instructor's permission.
- Z 1914 432**
MICROPALAEOBIOLOGY 4.0
 Taxonomic, morphologic, paleoecologic and stratigraphic consideration of common microfossils. Required field trips.
Pre-requisites: Z 1914 114OR, W 0401 130 or instructor's permission.
- Z 1914 434**
STRATIGRAPHY 4.0
 Stratigraphic principles and their application. Case studies of selected regions. Local stratigraphy interpreted through field studies.
Pre-requisite: Z 1914 431 or instructor's permission.
- Z 1914 437**
SEDIMENTOLOGY 4.0
 Geological processes and agents which form, transport, deposit, consolidate and alter sediments. Interpretation of the resultant sedimentary rocks. Laboratory work on the texture, mineralogy and mass properties of sedimentary particles. Required field trips. (Not offered every year.) (3 hrs. lecture, 2 hrs. laboratory).
Pre-requisites: Z 1914 112 or instructor's permission.
- Z 1914 443**
MINERALOGY 4.0
 Crystallography, internal structure, origin, occurrence, and properties of minerals, laboratory study of common minerals. Required field trips.
Pre-requisites: Z 1914 112, X 1905 121.
- Z 1914 444**
PETROLOGY 4.0
 Description, identification, classification, origin and occurrence of sedimentary, igneous and metamorphic rocks. Laboratory study of the common rocks. Required field trips.
Pre-requisite: Z 1914 443 or instructor's permission.
- Z 1914 452**
GEOHYDROLOGY 3.0
 The study of ground-water with particular emphasis given to its mode of migration, chemistry and relation to the geographic environment. Particular attention is given to Darcy's law, soil porosity, soil permeability and the ability to withdraw water for human consumption. Water pollutants and salt water incursions are investigated. Spatial distributions are analyzed and the processes examined.
Pre-requisite: Z 1914 252 or instructor's permission.
- Z 1914 457**
METEOROLOGY 4.0
 The characteristics of the earth's atmosphere. Meteorological instruments, principles of atmospheric physics, weather patterns and measurements of changes within the atmosphere.
Pre-requisite: Introductory course in Geoscience.
- Z 1914 464**
GEOLOGY OF THE OCEANS 4.0
 The geology of the oceans, including tectonics, geochemistry, shoreline processes, stratigraphy, sedimentology and related subjects. (Not offered every year.)
Pre-requisite: Z 1914 112.
- Z 1914 472**
STRUCTURAL GEOLOGY 3.0
 Recognition and interpretation of primary and tectonic rock structures laboratory work emphasizes the analysis of faults, joints, folds and foliation. Required field trips. Pre-requisite: Geoscience major sequence including Z 1914 434 and Z 1914 444.
Pre-requisites: Z 1914 114, Z 1914 434 OR, Z 1914 444, Y 1701 122.

1914 480

FIELD STUDIES IN GEOSCIENCE 4.0

Use of geologic, meteorologic and oceanographic instruments in field investigations, interpretation of observations and writing a field report. Required field trips. Pre-requisites: Geoscience major sequence.

Pre-requisite: Z 1914 472.

Z 1914 484

GEOLOGY FIELD TRIP 1.0

A five-day to one-week trip through areas of geologic significance. A geoscience major is expected to participate in at least two of the trips. Field trip report and collection required. Expenses shared by the participants.

Pre-requisites: Geoscience major sequence including Z 1914 472 or permission of instructor. Majors only.

Z 1914 490

SEMINAR IN GEOSCIENCE 2.0

Student field, laboratory and library investigation of a problem in the area of his/her interest in geoscience results presented in oral and written form. Class discussion of the individual papers and of others pertinent topics of current interest in geoscience. (Not offered every year.)

Pre-requisite: Geoscience major sequence or permission of the instructor.

Z 1914 495

INDEPENDENT STUDY IN GEOSCIENCE

An opportunity for the qualified student to do library and/or laboratory investigation in a field of science of his/her choice under the guidance of a faculty member. The course is conducted exclusively by scheduled individual conferences and reports. (Offered on demand.)

Pre-requisite: Geoscience major sequence or permission of the instructor.

Z 1999 210

INTRODUCTION TO MARINE SCIENCES 4.0

A field-oriented lower division undergraduate course covering the principal disciplines in the marine science. The course is designed for the student to evaluate his interest in the marine science world. Offered at the NJ Marine Sciences Consortium.

Z 1999 310

OCEANOGRAPHY 3.0

Study of the physical and chemical properties of sea water, oceanic circulation, waves and tides, and estuarine and shoreline processes. Offered at NJ Marine Sciences Consortium. Pre-requisites: Advanced standing in physical or biological sciences.

Z 1999 411

PHYSICAL OCEANOGRAPHY 4.0

A survey of modern oceanography and its methods including characteristics of sea water, theories of ocean currents and, in general, applications of biological, geological, physical, meteorological and engineering sciences to the study of the oceans. Offered at the site of the N.J. Marine Sciences Consortium. Prerequisite: 1 year calculus, 1 year physics or instructor's permission.

Z 1999 422

BIOLOGY OF MARINE PLANKTON 2.0

A study of the marine phytoplankton and zooplankton, their collection, analysis and interpretation. Their role in the ecosystem will be stressed as will be their distribution, particularly those of the near shore and estuarine environment. Field trips will be made to coastal New Jersey. Offered at NJ Marine Sciences Consortium.

Z 1999 450

MARINE BOTANY 4.0

An introduction to the structure, systematics, physiology and ecology of algae and metaphyta of the marine environment. Emphasis will be placed on the flora of the estuary and tidal marsh. Biology of the associated phytoplankton will be studied. Offered at the site of New Jersey Marine Sciences Consortium.

Pre-requisite: W 0401 120 or instructor's permission.

Z 1999 481

COASTAL MARINE GEOLOGY 4.0

A study of the geologic processes concerned with the supralittoral, and subtidal areas of the near shore environment. Field studies will emphasize the dynamics of erosion and deposition as well as general sedimentation associated with modification of barrier beaches and other land forms of the New Jersey shoreline. Offered at the NJ Marine Sciences Consortium.

Pre-requisite: Z 1914 437.

Z 1999 483

DYNAMIC BEACH PROCESSES 2.0

Study of the processes and forces involved in material transport within the beach zone. Offered at the NJ Marine Sciences Consortium.

Pre-requisites: Z 1914 437, Z 1914 360 or instructor's permission.

Z 1999 484

TIDAL MARSH SEDIMENTATIONS 2.0

Processes involved in sediment transport and deposition within the marsh system. Geologic history of tidal marshes. Offered at NJ Marine Sciences Consortium. Prereq.: Adv. standing in geoscience.

Pre-requisite: Z 1914 437.

Z 1999 490

FIELD METHODS IN OCEANOGRAPHY AND MARINE BIOLOGY 4.0

This course is intended to familiarize the student with the applications and techniques of marine samplings. The nature and role of equipment will be stressed. Field experience at the N. J. Marine Sciences Consortium field station.

Z 1999 498

INDEPENDENT STUDY IN THE MARINE SCIENCES 1-4.0

Individual research projects will be selected under the guidance of a professor associated with the consortium. Open only to those advanced undergraduate students who have indicated a potential for original thinking. Offered at NJ Marine Sciences Consortium.

Z 4902 100

CONCEPTS IN SCIENCE 3.0

For non-science majors. Modern science, understanding its methods and philosophy. The understanding of their nature rather than mathematical description of the laws. (2 hrs. lecture, 2 hrs. lab).

Z 4902 101

MAN AND TECHNOLOGY I 3.0

Interdisciplinary view of the ideas and techniques of technological civilization. The design of machines, the impact of technology, decision-making and computer logic, modeling, stability, feedback and control techniques for the man made world. These are applied to systems in medicine, traffic, pollution, economics and ecology. (2 hrs. lecture, 2 hrs. lab).

Z 4902 102

MAN AND TECHNOLOGY II 3.0

Inter-disciplinary view of the ideas and techniques of technological civilization. The design of machines, the impact of technology, decision making and computer logic, modeling, stability, feedback, and control techniques for the man made world. These are applied to systems in medicine, traffic, pollution, economics and ecology. (2 hrs. lecture, 2 hrs. laboratory).

- Z 4902 103
TECHNOLOGY FOR THE LAYMAN 3.0
 Simplified description of man-made devices. Common technological terms and physical principles behind heaters, airconditioners, airplanes, telephone, radar, nuclear reactors, etc.
- Z 4902 104
HISTORY OF SCIENCE 3.0
 The historical and philosophical development of science traced from the ancient Egyptians to the present.
- Z 4902 105
ACOUSTICS 3.0
 The study of sound for science and non-science majors. Applications to music and speech. The nature of sound, wave motion, standing waves and resonance, the ear and hearing, scales and tuning. Musical instruments and the voice, architectural acoustics, and electronic sound recording and reproduction. (2 hrs. lecture, 2 hrs. laboratory).
- Z 4902 106
SCIENCE AND SOCIETY 3.0
 Non-mathematical course. Some of the principles of science, their relationship to society as solutions to and causes of problems.
- Z 4902 107
FUNDAMENTALS OF GEOSCIENCE 3.0
 An introduction to the physical characteristics of planet earth. Utilizing satellite information, aerial photographs and various types of maps and charts, this course provides background for an understanding of the basic interrelationships of the earth's atmosphere, lithosphere and hydrosphere. The human impact on earth systems is also developed and maintained in perspective.
- Z 4902 108
PRINCIPLES OF GEOLOGY 3.0
 Geologic materials and processes. Origin and development of the earth throughout geologic time. Evolution of life as interpreted through the study of fossils. Not open to geoscience majors or to those who have taken Physical Geology.
- Z 4902 109
EARTH IN SPACE AND TIME 3.0
 The earth, its interactions with sun, moon and planets. Its origin, its major ecologic features and the geologic events of its past, present, and possible future.
- Z 4902 110
NATURAL DISASTERS 3.0
 The study of natural disasters such as volcanic activity, earthquakes and hurricanes. The causes, effects and means of predicting, preventing and minimizing the effects of disasters will be discussed. The relationships between man and his sometimes hostile habitat will be included. Not open to geoscience majors.
- Z 4902 112
THE NATIONAL PARKS AND THEIR GEOLOGY 3.0
 The national parks and monuments as regions of relatively undisturbed natural history. The minerals, fossils and rock formations which occur as well as the story of their formation. Specific parks and monuments will be studied in detail. For non-geoscience majors only.
- Z 4902 120
INTRODUCTION TO PHOTOGRAPHY 3.0
 Laboratory and field work, lectures and demonstrations the construction of cameras, common films and papers, fundamental chemistry and photography, development and printing. A student needs at least one camera. (2 hrs. lecture, 2 hrs. lab.).
- Z 4902 135
DINOSAURS, THEIR LIFE AND TIMES 3.0
 The origin evolution, paleocology and extinction of the dinosaurs as reflected in the history of the Mesozoic era.
- Z 4902 147
THE STUDY OF GEMS 3.0
 Mineralogy of gem materials through lectures, demonstrations and laboratory experience. Sources of gem materials. The cutting and polishing of gem materials. Not for major credit. (2 hrs. lecture, 2 hrs. lab.).
- Z 4902 157
UNDERSTANDING THE WEATHER 3.0
 A basic course designed to present the natural and human-induced processes which result in weather patterns and dramatic deviations from normal conditions within the atmosphere. Through the use of weather instruments, practical experience will be gained in observing, recording and analyzing weather. For the non-science major.
- Z 4902 162
GENERAL OCEANOGRAPHY 3.0
 The physical, chemical, geological and biological aspects of the oceans and their interrelationship. Required field trips. For non-science majors.
- Z 4902 180
DESCRIPTIVE ASTRONOMY 3.0
 For the general student. The tools of the astronomer. The nature of the solar system. Motions and laws relative to systems. The Nature, classification and magnitudes of stars and cosmogony, a historical view.
- Z 4902 198
ENERGY, SOCIETY AND ENERGY ALTERNATIVES RACE 3.0
 This is a non-mathematical course designed (1) to provide a knowledge of some of the principles of science about different types of energy, (2) to consider energy consumption by society, (3) to examine the advantages and disadvantages of each source of energy, and (4) construct a policy for an E.A.R., Energy Alternatives Race. There are no science or mathematics prerequisites. Essentially the course consists of lecture-demonstration, discussions, and reports. Winter session only.
- Z 4902 199
THE SCIENCE IN SCIENCE FICTION 3.0
 An exploration for the general student of some of the scientific and mathematical principles which underlie the speculative fiction of this century. Topics to be considered include astronomy, causality, chemistry, cosmology, computers, entropy, genetics, relativity and modern mathematics.
- Z 4902 204
SELECTED TOPICS IN CONTEMPORARY HISTORY OF SCIENCE 3.0
 A study which will consider the most important discoveries of the twentieth century that are changing our world and the events leading to the inventions. These concepts will be related to 20th century idealism, materialism, and ideas of progress. No prior knowledge of science or mathematics is assumed and the course could be used as a sequential to history of science Z 4902 104.
- Z 4902 220
PHOTOGRAPHY
 Laboratory and field work, lectures and demonstrations. Nature of light lenses and optical systems of cameras, enlargers chemicals and principles used in development and printing of films and papers, and special techniques.
Pre-requisites: Z 4902 120 or Instructor's permission.

Z 4902 221
CONSERVATION OF NATURAL RESOURCES 3.0
 The imbalance between natural resources and world population distribution and growth. Required field trip.

Z 4902 222
NEW JERSEY ENVIRONMENT: PROBLEMS AND ISSUES 3.0
 Designed to focus attention on the physical characteristics of New Jersey in order to appreciate and understand the problems encountered in issues involved in management and protection of the natural environment. The significance of location, characteristics of landforms, climate weather patterns, soil and vegetation, will be examined together with the human impact on the landscape.

Z 4902 320
SCIENTIFIC PHOTOGRAPHY 2.0
 Field and laboratory application of photographic techniques for use in preparing scientific reports as well as for personal study. Includes macrophotography, microphotography, micrography and election micrography. Also offered at the site of the New Jersey Marine Sciences Consortium. Pre-requisite: 12 credits of college science and a course in introductory photography or equivalent experience.

Z 4902 322
CONSUMER SCIENCE 3.0
 Basic scientific principles in testing and evaluating consumer products. Field trips to local cooperating industries and testing agencies to evaluate processes and products. Not open to freshmen and sophomores.

Political Science

Chairperson: George T. Menake

Political Science is a branch of the social sciences concerned with the theory and practice of government and politics. There are four areas of interest a student may pursue: Political Theory and Methodology, American Politics, Comparative Politics and International Politics.

The department also provides a Public Administration minor in order to give those seeking employment in state or local government the necessary background. It is open to all students.

Graduates in the political science major receive a Bachelor of Arts degree.

Political Science Major

REQUIRED COURSES

	Semester Hours
2207 102 The American Political Process	3
2207 103 Institutions of American Government.....	3
2207 201 Comparative Government and Politics.....	3
2207 202 International Relations	3
2207 300 Scope and Theories in Political Sciences	3
2207 408 Development of Political Thought to Machiavelli.....	3

Electives (departmental)

Select 15 sh from the appropriate list to be obtained from the department.....15

Political Science Minor

This program is open to all students with any major. It requires 18 sh from the Political Science major both required and elective courses. See the department staff for details.

Public Administration Minor

Required Courses

	Semester Hours
2207 103 Institutions of American Government.....	3
2207 305 Introduction to Public Administration	3

Electives (departmental)

Select 12 sh from the appropriate list to be obtained from the department.....12

Courses of Instruction

S 2207 102
THE AMERICAN POLITICAL PROCESS 3.0
 Essential elements of American political life such as parties, pressure groups, public opinion and foreign affairs as they relate to the dynamics of the policy process.

S 2207 103
INSTITUTIONS OF AMERICAN GOV'T 3.0
 The fundamentals of the U.S. constitution, congress, the presidency and the courts. Their operations and interactions.
Pre-or co-requisites for Paralegal Minors.

S 2207 200
INTRODUCTION TO POLITICS 3.0
 Government and politics in the contemporary world with particular reference to American politics and institutions. Not for political science majors.

S 2207 201
COMPARATIVE POLITICS 3.0
 Constitutional principles, governmental institutions and political processes of selected contemporary states with emphasis on major European governments.

S 2207 202
INTERNATIONAL RELATIONS 3.0
Recent and contemporary world politics and the foreign relations and policies of selected states.

S 2207 203
INTERNATIONAL ORGANIZATIONS 3.0
Political and administrative institutions of international government with emphasis upon the United Nations and selected regional organizations.

S 2207 214
WOMEN IN POLITICS 3.0
The role of women in the functioning of the American political system.

S 2207 300
SCOPE AND THEORIES IN POLITICAL SCIENCE 3.0
The development of the discipline of political science basic concepts and research trends. The behavioral movement and post-behavioral reactions.
Pre-requisites: S 2207 102, S 2207 103.

S 2207 301
AMERICAN PARTY SYSTEM 3.0
Organization, function and practice of political parties in the U.S. Campaign functions, membership problems, political finance and policy-formation practices. *Pre-requisite: 2207-0102 or 2207-0103 or 2207-0200*, or permission of instructor.*

S 2207 302
PUBLIC OPINION AND PRESSURE GROUPS 3.0
The nature and development of public opinion and pressure groups in the United States and their influence on public policy and political process.
Pre-requisites: S 2207 102 or, S 2207 103 or, S 2207 200, or instructor's permission.

S 2207 303
POLITICS OF DEVELOPMENT AND MODERNIZATION 3.0
The major contemporary schools of political modernization and development theory. Inter-relationship among political, social and economic variables.

S 2207 304
STATE AND LOCAL GOVERNMENT 3.0
State political systems, including their administrative and local sub-systems. Federal-state and inter-state relations. The Political institutions of New Jersey.
Pre-requisites: S 2207 102 or, S 2207 103 or, S 2207 200, or instructor's permission.

S 2207 305
INTRODUCTION TO PUBLIC ADMINISTRATION 3.0
Literature and developments in the field of public administration. The federal bureaucracy in the policy-making process.
Pre-requisites: S 2207 102 or, S 2207 103 or, S 2207 200, or instructor's permission.

S 2207 306
CAMPAIGN POLITICS 3.0
This course is taught in election years and provides the student with field experience at the local precinct or party level.
Pre-requisites: S 2207 102 or, S 2207 200 or, S 2207 103.

S 2207 307
AMERICAN POLITICAL THOUGHT 3.0
The development of American ideas covering political authority from Hamilton, Madison and Marshall to the present.
Pre-requisites: S 2207 102 or, S 2207 103 or, S 2207 200, or instructor's permission.

S 2207 308
ETHNIC POLITICS IN AMERICA 3.0
The political behavior of American ethnic groups from the puritans to the Puerto Ricans.
Pre-requisites: S 2207 102, or S 2207 103, or S 2207 200, or instructor's permission.

S 2207 309
URBAN POLITICS 3.0
The policies, processes, inter-relationships and organization of governments in heavily-populated areas.

S 2207 310
PUBLIC PERSONNEL ADMINISTRATION 3.0
The problems and processes in the U.S. of public personnel administration at the state and local level.
Pre-requisites: S 2207 305, S 2207 103, or instructor's permission.

S 2207 311
GOVERNMENTAL BUDGETING 3.0
The Budgetary process in governmental agencies from the perspective of political demands and influences.
Pre-requisites: S 2207 305, S 2207 103.

S 2207 315
URBAN ADMINISTRATION 3.0
Problems and policy-making in the larger urban or metropolitan complexes.
Pre-requisites: S 2207 103, S 2207 305, or instructor's permission.

S 2207 320
LAW IN SOCIETY CIVIL LAW 3.0
This course will examine the American civil legal systems as it affects a variety of our social institutions.

S 2207 321
LAW IN SOCIETY CRIMINAL LAW 3.0
To introduce student to institutions, processes, and social functions of criminal law. Emphasis placed on structure of American criminal justice system, functions of behavior of major legal actors (i.e. police, prosecutors, judges, corrections officers etc.) Legal rights of criminal defendants, dynamics of criminal trials, extent and causes of crime, and selected issues of substantive criminal law.

S 2207 322
AMERICAN CONSTITUTIONAL LAW: THE FEDERAL SYSTEM 3.0
Interpretation of supreme court decisions in the areas of the distribution of power within the national government and between the national gov't and the states.

S 2207 323
AMERICAN CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES 3.0
The development of the constitution and the supreme court of the United States illustrated through reference to court opinions in civil rights and liberties.

S 2207 402
GOVERNMENT AND POLITICS OF AFRICA 3.0
Governmental and political development, organization and practices in sub-Saharan Africa.

S 2207 403
GOVERNMENT AND POLITICS OF CHINA-JAPAN 3.0
The government and politics of Japan, China and Korea in the contemporary world.

S 2207 404
GOVERNMENT AND POLITICS OF INDIA AND SOUTH ASIA 3.0
The political experiences and institutions of the Indian subcontinent since 1947. The Republic of India, Pakistan, Ceylon and Bangladesh.

S 2207 405
GOVERNMENT AND POLITICS OF LATIN-AMERICA 3.0
Governmental and political development, organization and practices in the state of Middle America and South America.

S 2207 406
GOVERNMENT AND POLITICS OF THE MIDDLE EAST 3.0
Government and politics in the Arab states, Turkey, Israel and Iran.

S 2207 407
GOVERNMENT AND POLITICS OF U.S.S.R. 3.0
The political and institutional organizations of the Soviet Union. Contemporary political issues, party and governmental structures.

S 2207 408
DEVELOPMENT OF POLITICAL THOUGHT TO MACHIAVELLI 3.0
Selected major political philosophies from Plato and Aristotle, through to Machiavelli.

S 2207 409
MODERN POLITICAL THOUGHT 3.0
Selected political philosophers from Machiavelli to the present.

S 2207 410
DIRECTED STUDY 3-6.0
Juniors and seniors may elect three to six credits of independent study under the direction of a member of the Political Science staff.

S 2207 411
THE POLITICS OF RACE 3.0
Black participation in the American political system from the colonial period to the present.

S 2207 412
GOVERNMENT AND POLITICS OF COMMUNIST EAST EUROPE 3.0
The political and governmental organizations of the communist countries of eastern and central Europe (exclusive of the U.S.S.R.). Institutions, practices and ideologies including inter-regional relations.

S 2207 413
AFRO-ASIAN FOREIGN POLICIES 3.0
The course will examine the position and role of new African and Asian nations in international politics in the post-World War II era.
Pre-requisites: S 2207 303, or instructor's permission.

S 2207 416
SELECTED TOPICS IN POLITICAL SCIENCE 3.0
This course allows the instructor to select a political problem which is either not covered in the curriculum or which deserves more in-depth treatment that is possible in a regular course.

S 2207 420
SEMINAR AND INTERNSHIP IN POLITICAL SCIENCE 4.0
In this course students will work as interns for one semester in the office of a N.J. state legislator, U.S. congressperson or senator, or state or federal executive.

S 2207 425
POLITICS OF FEDERAL BUREAUCRACY 3.0
In-depth examination of the federal bureaucracy in relationship with national, state and local agencies.
Pre-requisites: S 2207 103.

S 2207 426
SEMINAR AND INTERNSHIP IN PUBLIC ADMINISTRATION 5.0
A one semester public administration field experience in local government. Application must be made directly to the instructor in preceding semester.
Pre-requisite: Instructor's permission.

S 2207 427
SEMINAR AND INTERNSHIP IN PUBLIC ADMINISTRATION II 4.0
A one semester public administration field experience in local government. Application must be made directly to the instructor in preceding semester.
Pre-requisite: Instructor's permission.

S 2207 429
QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE 3.0
The main goal of this course will be to familiarize students with various quantitative methods used in political science research with the aim of giving them the ability to evaluate and criticize such research. A variety of quantitative techniques will be covered, ranging from simple descriptive statistics to Guttman scaling to factor analysis. Students will also be given basic training in how to use canned statistical programs and basic data processing.

S 2207 430
INTERNATIONAL LAW 3.0
The nature and place of international law in the conduct of international relations.

Psychology

Chairperson: Roland Siiter

Undergraduate courses in psychology establish a sound basis for later professional or graduate training in psychology. As part of a broad liberal education, they satisfy the needs of students, majors and non-majors, and teach principles and techniques as intellectual tools for work in other social and biological sciences and in professional fields such as social work, journalism, business and law. Provides courses required for teacher certification in the State of New Jersey, as described in the Teacher Education Program.

In addition to a diverse general psychology program, the department offers a Community Psychology concentration and an Honors Seminar Program, as well as a minor in Psychology.

Psychology Major

REQUIRED COURSES

	Semester	Hours
2001 101	General Psychology I: Growth and Development	3
2001 203	General Psychology II: An Experimental Approach	3
2001 220	Quantitative Methods in Psychology	3
2001 301	Experimental Psychology	4

Electives (departmental)

Select 21 sh from the appropriate list to be obtained
from the department.....21

Concentration Programs Within the Major COMMUNITY PSYCHOLOGY

Required Courses

	Semester Hours
2001 101 General Psychology I.....	3
2001 203 General Psychology II	3
2001 220 Quantitative Methods in Psychology	3

Specialization

2099 245 Introduction to Community Psychology	3
2099 290 Advanced Community Psychology	3
2099 387 Methods in Evaluation Research	4
2099 391 Cooperative Education.....	3

Electives (departmental)

	Semester Hours
2001 201 Child Psychology.....	3
2001 202 Adolescent Psychology.....	3
2001 225 Psychology of Adjustment.....	3
2001 227 Psychological Aspects of Human Sexuality.....	3
2001 230 Environmental Psychology.....	3
2001 260 Social Psychology.....	3
2001 265 Psychology of Women.....	3
2001 268 Psychosocial Aspects of Aging.....	3
2001 235 Psychology of the Handicapped.....	3
2001 305 Physiological Psychology.....	3
2001 310 Psychological Tests and Measurements.....	3
2001 332 Personality.....	3
2001 341 Psychosocial Aspects of Consumer Behavior	3
2001 365 Abnormal Psychology.....	3
2001 383 Psychology of Aggression.....	3
2001 470 Child's Rights—Child Advocacy.....	3

Electives (interdepartmental)

Select 3 sh from the appropriate list to be obtained
from the department.....3

Note: The Community Psychology concentration requires 31 sh of course work and 9 sh of applied experience. Check with the department for details.

Community Psychology Minor**Required Courses**

	Semester Hours
2001 101 General Psychology I: Growth and Development	3
2099 245 Introduction to Community Psychology	3
2099 290 Advanced Community Psychology	3

Electives (departmental)

2001 225 Psychology of Adjustment.....	3
2001 227 Psychological Aspects of Human Sexuality.....	3
2001 230 Environmental Psychology.....	3
2001 265 Psychology of Women.....	3
2001 260 Social Psychology.....	3
2001 341 Psychosocial Aspects of Consumer Behavior.....	3
2001 383 Psychology of Aggression.....	3
2001 405 Psychological Anthropology	3
2001 491, 492 Independent Study.....	1-3

Electives (interdepartmental)

Select 3 sh from the appropriate list to be obtained
from the department.....3

Note: The Community Psychology minor requires 21 sh of course work. Check with the department for details.

General Psychology Minor**Required Courses**

2001 101 General Psychology I.....	3
2001 203 General Psychology II	3

Electives (departmental — 300 level or above)

Select 6 sh from the appropriate list to be obtained
from the department

Electives (departmental — general)

Select 6 sh from the appropriate list to be obtained
from the department

Teacher Certification (Social Sciences)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in the department of Curriculum and Teaching.

Departmental course requirements include 27 sh of social science courses. Consult with an advisor for further information.

Teaching of Psychology Certification Endorsement

This endorsement is necessary for teaching Psychology in elementary and secondary schools. The requirements are as follows:
A bachelor degree based upon a four-year program in an accredited college.

A regular New Jersey teaching certificate.

Completion of 24 sh in Psychology including work in each of the following areas:

- Developmental Psychology
- Mental Health
- Personality or Social Psychology
- Experimental Psychology
- Psychological Measurement

Check with the department for appropriate courses.

Courses of Instruction

T 2001 100
RE-ENTRY SEMINAR 2.0
Provides academic, career, and personal counseling during first semester adjustment period, group identification and support while developing renewed skills and ego strength. Offered only on a pass/fail basis.

T 2001 101
GENERAL PSYCHOLOGY I: GROWTH AND DEVELOPMENT 3.0
Psychology as an applied behavioral science. Human development, conflict and adjustment, social behavior, group processes, individual differences, personality theory and assessment, behavior disorders, and principles of conditioning, learning and forgetting.

T 2001 103

FRESHMAN SEMINAR

2.0

Major objective is to better acclimate the beginning college student (freshman and transfers) to campus life through an emphasis on affective education and group interaction. Values, clarification and self identity are important course components. Offered only on a pass/fail basis.

T 2001 109

MAN AND HIS ENVIRONMENT

3.0

Interdisciplinary with geography. People's modification and understanding of the environment. Future human and environmental projections.

T 2001 200

EDUCATIONAL PSYCHOLOGY

3.0

Required for teaching. Child and adolescent development. Fundamentals of learning theory as applied to classroom situations, learning inhibition and academic non-achievement, personal-social adjustment, measuring and evaluating teaching-learning, creativity.

Pre-requisite: T 2001 101.

T 2001 201

CHILD PSYCHOLOGY

3.0

Growth, development and behavior of children. Physical, intellectual, social and emotional development and their interaction. Scientific method exemplified through the literature and intensive study of individual children.

Pre-requisites: T 2001 101.

T 2001 202

ADOLESCENT PSYCHOLOGY

3.0

Biological, psychological and social factors that shape the transition from childhood to adulthood. Normal and deviant patterns of development in morals, intellect, emotions and judgment. Problems of adolescents with practical application to oneself and others.

Pre-requisites: T 2001 101.

T 2001 203

GENERAL PSYCHOLOGY II: AN EXPERIMENTAL APPROACH

3.0

Emphasis on psychology as an experimental and research oriented science. Topics under investigation include experimental design, psychological measurement, physiology, perception, sensory processes, motivation, emotional behavior, and advanced topics in psychological learning theory.

Pre-requisites: T 2001 101.

T 2001 220

QUANTITATIVE METHODS IN PSYCHOLOGY

3.0

Descriptive statistics and introduction to statistical inference. Emphasis on practical application of statistical tools in testing and research. Topics include logic of statistics, organization and presentation of statistical data, measures of central tendency, variability, and relative position. Probability and the normal curve, measures of correlation, parametric and nonparametric tests of significance.

Pre-requisites: T 2001 101.

T 2001 225

PSYCHOLOGY OF ADJUSTMENT

3.0

Individual and social adjustment. Typical varieties of adjustive behavior illustrated by practical examples. Factors which facilitate or impede man's adaptation to life situations such as work, marriage, disability, etc.

Pre-requisites: T 2001 101.

T 2001 227

PSYCHOLOGICAL ASPECTS-HUMAN SEXUALITY

3.0

Behavior and attitudes influenced by basic sexuality widens perspectives to aid in decision-making. Developmental periods and sexual relationships. Connections between psychological theory and sexual mores; genetic understandings.

Pre-requisites: T 2001 101.

T 2001 230

ENVIRONMENTAL PSYCHOLOGY

3.0

The influence of the physical environment on the behavior of organisms. Population growth and regulation. Crowding, sensory experience, enrichment and deprivation. Motivational force of environmental stimulation. Adaptation to environment as a function of prolonged exposure, salutary effects of aesthetically pleasing stimulation.

Pre-requisites: T 2001 101 Instructor's Permission.

T 2001 233

PSYCHOLOGY OF THE GIFTED

3.0

Survey of the recent literature on gifted children along with the special problems they face in their adjustment. Special attention on the discovery and cultivation of creativity.

Pre-requisites: T 2001 101, T 2001 201 OR, T 2001 203

T 2001 235

PSYCHOLOGY OF EXCEPTIONAL CHILDREN AND YOUTH

3.0

Surveys, current practices and problems of exceptional children and youth. Explores the unique needs of individuals with handicaps that involve intellectual, sensory, motor, neurological, social and emotional origins. Utilizes analysis of case materials for theoretical and practical applications to the psychology of exceptionality.

Pre-requisite: T 2001 101.

T 2001 240

INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY

3.0

Application of psychological principles and practices in business and industry. Problems of communication, group dynamics, man-machine relations, employee attitudes, accident prevention, industrial job selection techniques, motivation, executive leadership. Commonly used selection tests will be evaluated.

Pre-requisites: T 2001 101.

T 2001 248

PSYCHOLOGY AND LAW

3.0

Law and Psychology share a common focus, the understanding, prediction and regulation of human behavior. Despite this commonality of interest, different emphasis on these elements and a different mandate have frequently hindered active communication and collaboration between the disciplines. The purpose of this course is to present the common ground of law and psychology, and show how they contribute to each other.

Pre-requisites: T 2001 101 Majors only.

T 2001 260

SOCIAL PSYCHOLOGY

3.0

Focus on social behavior of the individual and the group, social perception, motivation, and learning. Attitudes and values. Development and dynamics of social groups. Inter-group tension and prejudice. Mass phenomena. Psychological approaches to social issues.

Pre-requisites: T 2001 101.

T 2001 265

PSYCHOLOGY OF WOMEN

3.0

The course will investigate contemporary issues in the psychology of women (an opportunity for original research will be provided). Theoretical positions and recent research in the area will be examined. Pre-requisite: 6 S.H. in Psychology.

T 2001 268
PSYCHOLOGICAL ASPECTS OF AGING 3.0
 Overview of later maturity and aging. Emphasis on psychological, physiological and sociological aspects. Aging and the cognitive process. Mental health, death, adjustment problems, needs, issues. *Pre-requisites: T 2001 101 — Course in Developmental Psychology.*

T 2001 273
PSYCHOLOGY AND LITERATURE 3.0
 Terminology and techniques of modern depth psychologies — Freudian, Jungian, Adlerian — to illuminate the literary portrayal of human character in masterpieces of world literature. Study organized into themes such as the quest for selfhood, the alienated individual, love and marriage, parents and children. *Pre-requisite: 6 semester hours in Psychology or English.*

T 2001 301
EXPERIMENTAL PSYCHOLOGY 4.0
 Introduction to laboratory methods of research in areas such as motivation, perception and learning. Emphasis is on design and execution of exploratory investigations. (4 hrs. lecture, 2 hrs laboratory.)
Pre-requisites: T 2001 220.

T 2001 305
PHYSIOLOGICAL PSYCHOLOGY 3.0
 Anatomical, neural and biochemical bases of behavior are studied. Topics include localization of function, neuro-hormonal interaction, sensory and motor functioning, emotions, the relationship of neurophysiological processes and personality.
Pre-requisite: T 2001 203 or instructor's permission.

T 2001 308
PERCEPTION 3.0
 The theory and procedure of perceptual research. Theoretical approaches reviewed; modern psychophysical and perceptual research. Traditional problems of perception, constancies of size and color brightness.
Pre-requisite: T 2001 301 or instructor's permission.

T 2001 310
PSYCHOLOGICAL TESTS AND MEASUREMENTS 3.0
 Tests of intelligence, aptitude, achievement and personality. Principles of psychological testing. Approaches to test construction.
Pre-requisites: T 2001 220.

T 2001 322
EXPERIMENTAL ANALYSIS OF HUMAN BEHAVIOR 4.0
 Explores applications of operant conditioning methods to practical human problems through study and laboratory exercises and experiments. Applications may include increasing and decreasing frequency, successive approximations, and teaching of complex behaviors through discrimination, fading, and chaining procedures. Applications primarily to handicapped children and adults. Two lecture and four laboratory hours.
Pre-requisites: T 2001 203.

T 2001 332
PSYCHOLOGICAL FOUNDATIONS OF PERSONALITY 3.0
 Current approaches and theories of personality development and organization.
Pre-requisites: T 2001 203.

T 2001 340
VERBAL LEARNING MEMORY 3.0
 Research, language and methods of learning theory. Classical and operant conditioning, complex habits, remembering and forgetting, transfer of training, cognition and behavior modification. Review of animal research but primary emphasis is on man.
Pre-requisite: T 2001 203 or instructor's permission.

T 2001 341
PSYCHOLOGICAL ASPECTS OF CONSUMER BEHAVIOR 3.0
 Applications of the science of psychology to consumerism, consumer protection, questionnaire construction and opinion surveys, marketing and advertising.
Pre-requisites: T 2001 220, T 2001 240, T 2001 260.

T 2001 345
MENTAL HEALTH ISSUES OF HISPANIC AMERICANS 3.0
 A lecture-type course focusing on the personal, social, institutional and cultural forces that affect the mental health of Americans of Spanish descent. The course will cover issues such as the measurement of psychological functions, bilingualism, personal values and belief systems, the dynamics of the family and acculturation. A midterm and a final exam as well as a research paper will be required from students.

T 2001 348
PSYCHOLINGUISTICS 3.0
 The study of language through linguistic, behavioral, and cognitive methods. Basic linguistic ideas used for the explications of problems in grammar, cognitive structure, meaning, and speech production and comprehension.
Pre-requisite: T 2001 203 or instructor's permission.

T 2001 353
COMPARATIVE PSYCHOLOGY 3.0
 The student will explore experimental and field studies of behavior in a few selected animal species with particular reference to the behavior of vertebrates. The program will involve detailed study of instinctive behavior and imprinting, respondent and operant behavior with emphasis upon the procedures and variables concerned with the acquisition of new forms of behavior.
Pre-requisite: T 2001 301 or instructor's permission.

T 2001 355
MOTIVATION 3.0
 The concepts of instincts, homeostasis, drive, reinforcement, arousal and inception are analyzed with reference to data drawn from many areas of experimentation. Primary emphasis on the experimental, rather than the theoretical literature. Motivational concepts relevant to human and animal research.
Pre-requisites: T 2001-203 and 6 additional hours in psychology.

T 2001 358
FUNDAMENTALS OF CONDITIONING AND LEARNING 3.0
 Major theoretical problems and theories of learning are considered. Includes experimental analysis of basic phenomena of conditioning and learning, studied primarily through experimental studies of infra-human organisms. Students may study selected topics more extensively.
Pre-requisite: T 2001 301 or Instructor's Permission.

T 2001 360
HISTORY AND SYSTEMS OF PSYCHOLOGY 3.0
 Historical developments of psychology. Comparative analysis of the major schools of contemporary psychology. New trends and movements in psychological theory. *Pre-requisites: T 2001-0203 and 6 additional semester hours in psychology (not including T 2001-0101).*

T 2001 365
ABNORMAL PSYCHOLOGY 3.0
 Overview of psychopathological processes. Neuroses, psychoses, and characterological disorders. Feeling, thinking and behavioral aspects during the life span. Diagnostic and treatment procedures.
Pre-requisites: T 2001 203, T 2001 225OR, T 2001 332.

T 2001 383
PSYCHOLOGY OF AGGRESSION 3.0
 The root causes of violence in America. There is no more crucial domestic problem, no more searching dilemma than that of violence in urban areas. Our most sensitive domestic issues center around poverty, frustration, the police and racial conflict.
Pre-requisites: T 2001 101, T 2001 220, T 2001 225.

T 2001 400
SEMINAR IN PSYCHOLOGY 3.0
 Intensive study on topics related to student and instructor interest. Forum for instructor specialization and small group interaction. Advanced students only.
Pre-requisites: T 2001 301.

T 2001 402
SOCIAL ROLE OF PSYCHOTHERAPIES (ALSO LISTED AS U 2208-0402) 3.0
 The effects of various psychotherapies upon society, social institutions and social relationships. Impact of classical Freudian therapy, behaviorism, group and encounter movements. Cross-listed with sociology.
Pre-requisites: Two courses in Psychology.

T 2001 405
PSYCHOLOGICAL ANTHROPOLOGY 3.0
 Transcultural focus on the inter-related nature of culture and human behavior. Team taught interdisciplinary course with emphasis on mutual dependencies of psychological and anthropological theory and method. Student work with bi-cultural informants.
Pre-requisites: T 2001 101, J 2202 100.

T 2001 420
PACKAGED COMPUTER PROGRAMS FOR PSYCHOLOGY 1.0
 An introduction to the use of statistical packages in the computer for the purpose of doing extensive statistical analyses of data. One such package will be reviewed thoroughly among datatest, SPSS, SAS, bio-med. Principles of coding and keypunching will also be presented.

T 2001 442
CURRICULUM AND METHODS IN SEX EDUCATION 3.0
 Developing curricula to fit individual schools. Implementation demonstrated. Current texts and audio-visual materials analyzed.
Pre-requisite: Instructor's permission.

T 2001 446
TODAY'S WOMAN 3.0
 Advanced lecture-discussion of history and current status of woman's liberation reaction. Man's reaction, achievement motive, witch trials, black woman, eastern and western woman, other selected topics.
Pre-requisite: Instructor's permission.

T 2001 463
PSYCHOLOGICAL FOUNDATIONS OF MUSIC I 2.0
 Inter-relations of physical and psychological aspects of music. Perception of music, experimental aesthetics, measurement and diagnosis of musical ability. Research methods in the study of musical phenomena. Independent research.
Pre-requisites: T 2001 101 Instructor's Permission.

T 2001 464
PSYCHOLOGICAL FOUNDATIONS OF MUSIC II 2.0
 Continuation of T 2001-463.
Pre-requisites: T 2001 101 Instructor's Permission.

T 2001 465
PROBLEMS OF PERFORMANCE 3.0
 Development of techniques needed for success in public appearances involving music, theatre, speech, etc. Resolving such problems as stage fright, memory loss, performance anxiety. Attaining self-understanding and confidence using techniques of Havas, Berne, Horrigol, Weekes, Alexander, others. Guest performers. Open to all majors. (Listed also under Dept. of Music H 1004 465.)

T 2001 470
CHILDREN'S RIGHTS AND CHILD ADVOCACY 3.0
 The review and evaluation of the rights, privileges, and responsibilities of young citizens (preschool through adolescence). The process and goals of advocacy. The community services available to and lacking for the optimum development to maturity of young citizens. Psychology, education, sociology, mental health, law enforcement, medicine are domains of study and investigation.
Pre-requisite: Junior standing/instructor's permission.

T 2001 491
INDEPENDENT STUDY I 3.0
 Individual project under supervision of a professor in the department.
Pre-requisite: Instructor's permission.

T 2001 492
INDEPENDENT STUDY II 3.0
 Individual project under supervision of a professor in the department.
Pre-requisite: Instructor's permission.

T 2099 245
INTRODUCTION TO COMMUNITY PSYCHOLOGY 3.0
 Integration of social psychology with mental health in the resolution of problems in the community. Social psychological theories and empirical strategies used to study the dynamics of power, membership, change and deviance. Accent also on comprehensive mental health center and roles of community psychologist.
Pre-requisites: T 2001 101 Majors Only.

T 2099 290
ADVANCED COMMUNITY PSYCHOLOGY 3.0
 Supervision is provided in a variety of community action programs which have preventative as well as treatment goals. Day and hour assignments can usually be arranged, but effective study participation will require a 3 hour block of time in order to serve directly in a community setting.
Pre-requisites: T 2001 101, T 2099 245 or Instructor's Permission.

T 2099 387
METHODS IN EVALUATION RESEARCH 3.0
 This course focuses on the application of psychological research methods and knowledge to the evaluation of the effectiveness or ineffectiveness of community programs. Emphasis will be on techniques for program planning and for constructive innovations in community settings.
Pre-requisites: T 2001 220, Majors Only, T 2099 245 Instructor's permission, T 2099 290 Work in Field.

T 2099 391
COOPERATIVE EDUCATION IN PSYCHOLOGY 9.0
 The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The co-op term is a semester off-campus, during which a student is supervised by a faculty coordinator and the office of cooperative education, and is responsible for completing the terms of a learning contract. Pre-requisite: Junior status.

Recreation and Leisure Studies

Chairperson: Joan Schleede

As more leisure time becomes available, the opportunity for leadership in both the public and private areas of recreation and leisure enterprises grow. A student who enrolls in the department's program can earn a Bachelor of Science degree in various areas such as commercial recreation and tourism, community recreation and leisure services, outdoor recreation and resource management or therapeutic recreation. Each of these concentrated areas of study is designed to prepare the student for either immediate entry into the profession or graduate study. Emphasis is placed on developing leadership skills for supervisory and management levels.

Courses are also open as electives for those majoring in other fields. Here the emphasis is placed on the role of recreation and leisure in life-planning and community service.

Recreation and Leisure Studies Major

MAJOR COURSES

	Semester Hours
2103 123 Leadership Techniques in Social Recreation	2
2103 124 Introduction to and History of Recreation and Leisure Services	4
2103 225 Recreation Leadership and Program Planning	3
2103 228 Recreation for Special Populations	3
2103 231 Park Planning and Design	2
2103 322 Philosophy of Recreation and Leisure	2
2103 334 Survey Research Methods in Recreation and Park Professions	3
2103 430 Management of Recreation and Leisure Services	3
2103 437 Senior Seminar	2
2103 489 Fieldwork in Recreation and Parks	14
Recreation concentration or a minor in another discipline selected and determined with the approval of a faculty advisor.	

Collateral Courses

0502 200 Accounting for Non-Business Majors	3
or	
1506 441 Group Discussion and Leadership	3
2204 100 Introduction to Economics	3
2001 260 Social Psychology	3

Concentration Programs Within the Major

COMMERCIAL RECREATION AND TOURISM

Required Courses

	Semester Hours
2103 340 Introduction to Commercial Recreation and Tourism	3
2103 342 Delivery of Commercial Recreation and Tourism Services	3
2103 346 Economics of Outdoor Recreation and Tourism	3
Select One	
0603 280 Elements of Public Media	3
1506 271 Interpersonal Communication I	3
2208 407 Sociology of the Mass Media	3
Select One	
0509 340 The Marketing Process	3
0509 344 Advertising Media	3
0840 208 Salesmanship	3
Select One	
2206 204 Principles of Land Use	3
0506 335 Small Business Management	3
0506 433 Entrepreneurship and Innovation	3
0701 107 Computers and Society	3

COMMUNITY RECREATION AND LEISURE SERVICES

Required Courses

2103 250 School — Community Recreation	3
2103 352 Community and Public Relations in Recreation and Leisure Services	3
2103 312 Budget and Finance in Recreation and Parks	3
2103 367 Management and Maintenance of Recreation and Park Areas and Facilities	3

Electives

Select One	
2204 308 Public Finance	3
2207 311 Governmental Budgeting	3
2204 204 Labor Economics	3
Select One	
2207 302 Public Opinion and Pressure Groups	3
2207 309 Urban Politics	3
2103 252 Recreation Needs of Urban Society	3

OUTDOOR RECREATION AND RECREATION RESOURCE MANAGEMENT

Outdoor Recreation Planning And Design

Required Courses

2103 360 Outdoor Recreation Planning	3
2103 365 Technical Design of Recreation and Park Areas and Facilities	3
Select Two	
2103 346 Economics of Outdoor Recreation and Tourism	3
1914 250 Map Reading and Cartography	3
1914 251 Aerial Photograph Interpretations	3
Select Two	

2103 367	Management and Maintenance of Recreation and Park Areas and Facilities	3
4922 341	History of City Form	3
4922 400	Designing Learning Environments	3

OR:

Outdoor Recreation And Park Management

Required Courses

2103 312	Budget and Finance in Recreation and Parks	3
2103 361	Implementation of Outdoor Recreation Programs	3
2103 360	Outdoor Recreation Planning	3
2103 367	Management and Maintenance of Recreation and Park Areas and Facilities	3

Select One

2206 203	Our Finite Earth and Population Resources	3
2207 302	Public Opinion and Pressure Groups	3
2103 346	Economics of Outdoor Recreation and Tourism	3

Select One

2206 201	Climatology	3
4902 221	Conservation of Natural Resources	3
0401 426	New Jersey Flora	4

OR:

Outdoor Program Implementation And Interpretive Services

Required Courses

2103 360	Outdoor Recreation Planning	3
2103 361	Implementation of Outdoor Recreation Programs	3

Select 6 sh

0420 501	Outdoor Teaching for Environmental Education	3
0420 462	Practicum in Camping Education and Administration	3
0420 495	Workshop Utilizing Natural Environments	1
0420 496	Field Studies in Humanities and Natural Science	1

Select 6 sh

0420 497	Field Studies in Social Studies and Outdoor Recreation	1
0835 224	Camping and Outdoor Education	2
4902 221	Conservation of Natural Resources	3
0401 370	Principles of Ecology	3

OR:

General Outdoor Recreation

Required Courses

2103 360	Outdoor Recreation Planning	3
----------	-----------------------------------	---

Select One

2103 365	Technical Design of Recreation and Park Areas and Facilities	3
1914 250	Map Reading and Cartography	3
1914 251	Aerial Photograph Interpretation	3

Select One

2103 346	Economics of Outdoor Recreation and Tourism	3
2206 109	Man and His Environment	3
2206 203	Our Finite Earth and Population Resources	3
2207 302	Public Opinion and Pressure Groups	3

Select One

2103 367	Management and Maintenance of Recreation and Park Areas and Facilities	3
----------	--	---

0401 370	Principles of Ecology	3
2206 201	Climatology	3
4902 221	Conservation of Natural Resources	3

Select 3 sh

0420 501	Outdoor Teaching for Environmental Education	3
0420 462	Practicum in Camping Education and Administration	3
0420 495	Workshop Utilizing Natural Environments	1
0420 496	Field Studies in Natural Science	1
2103 361	Implementation of Outdoor Recreation Programs	3
0420 497	Field Studies in Social Studies and Outdoor Recreation	1
0835 226	Camping and Outdoor Education	2

THERAPEUTIC RECREATION

Required Courses

2103 370	Therapeutic Recreation	1
2103 271	Clinical Experiences in Therapeutic Recreation	4
2103 377	Programming and Supervision in Therapeutic Recreation	4

Selected and determined with the approval of an academic advisor in the Department of Recreation and Leisure Studies

Courses of Instruction

9 2103 101
LIFETIME ACTIVITIES 2.0
 Introduction to a variety of lifetime activities through lecture, demonstration, visitation, and actual participation. Emphasis placed on benefits of each activity, equipment and facility needs, awareness of present participation levels, safety and basic skills in order to encourage life-long participation. Field visits required.

9 2103 103
TEAM ACTIVITIES IN RECREATION SETTINGS 2.0
 Introduction to the fundamental skills and rules of various team activities. Experience in adapting and applying leadership techniques in order to meet the needs of those people who participate in different recreation settings. Special considerations include the benefits of team activities, safety factors, personality and environmental factors, and the pros and cons of competitive activity.

9 2103 105
OUTDOOR RECREATION SKILLS 2.0
 Introduction to a wide variety of outdoor recreation and leisure pursuits with emphasis upon skill acquisition. Field visits required.

9 2103 107
WINTER OUTDOOR RECREATION SKILLS 2.0
 Taught at the NJ School of Conservation. Emphasizes the development of outdoor recreation skills by direct participation in various activities including ski touring, snowshoeing, ice fishing, curling, and winter survival. If weather is unseasonably mild, substitutes such as rock climbing, orienteering and backpacking will be taught. A special fee includes room, board, and equipment use.

- 9 2103 109
SPRING OUTDOOR RECREATION SKILLS 2.0
 Field application of the basic skills learned in the fall and new skills based on water resources. Students will be in residence at the NJ School of Conservation for 5 days during the regular spring recess. A special fee includes room, board and equipment use. (Students may count only one course from 9 2103: 105, 107, 109 toward their major.) Approval of department chairman.
- 9 2103 123
LEADERSHIP TECHNIQUES IN SOCIAL RECREATION 2.0
 Activity-level leadership needed for organizing individual and group participation in social recreation settings. Application of acquired techniques in the planning, execution and evaluation of a variety of recreation games and activities. Fieldwork required.
- 9 2103 124
INTRODUCTION TO AND HISTORY OF RECREATION AND LEISURE SERVICES 4.0
 History, theory, philosophy and introduction to the professional areas of recreation and leisure services. Significance of recreation and leisure in contemporary living.
- 9 2103 208
LEISURE AND RECREATION IN SOCIETY 3.0
 Analysis and interpretation of the concepts of leisure. Its role in individual, community and national lifestyles, its social and economic significance. The role of recreation programs and services in meeting current and future needs of society. For non-recreation and leisure studies majors only.
- 9 2103 211
AQUATICS IN RECREATION 2.0
 Managerial and supervisory leadership in the operation of aquatic facilities and programs in the public and private recreation and leisure enterprises. Emphasis placed on evaluative standards and requirements in the planning and promotion of aquatic facilities and programs.
- 9 2103 225
RECREATION LEADERSHIP AND PROGRAM PLANNING 3.0
 Theory, principles and processes of the different types of recreation leadership in a variety of recreation programs and leisure services. Observation and on-site participation in recreation programs and leisure services emphasized. Fieldwork required.
Pre-requisites: 9 2103 123, 9 2103 124.
- 9 2103 228
RECREATION FOR SPECIAL POPULATIONS 3.0
 Adaptation of recreation and leisure services for persons with special needs and limitations. Role of institutions and community agencies. Specialized leadership techniques. Modification requirements for areas, facilities equipment, and supplies.
Pre-requisite: 9 2103 225.
- 9 2103 231
PARK PLANNING AND DESIGN 2.0
 An introduction into the basic planning and design aspects of park operations. Emphasis on the managerial responsibilities in the construction and operation of recreation and park areas and facilities. Includes inquiry into professional ethics and professional standards in park administration. Field visits required.
Pre-requisite: 9 2103 124.
- 9 2103 250
SCHOOL-COMMUNITY RECREATION 3.0
 Inquiry into the historical and contemporary processes and practices utilized in the planning and development of school and community resources for recreation and leisure.
- 9 2103 252
RECREATION NEEDS OF URBAN SOCIETY 3.0
 Survey and evaluation of leisure and recreation as a social force. Recreation history and philosophy in light of changing times. Present and future recreational needs and problems of urban society.
- 9 2103 271
CLINICAL EXPERIENCES IN THERAPEUTIC RECREATION 1-3.0
 Individualized student placements in clinical settings provide opportunity to gain firsthand knowledge of therapeutic recreation and prescriptive programming services.
Pre-requisite: Q 0406 240.
- 9 2103 285
FIELD EXPERIENCE IN RECREATION AND PARKS 2-4.0
 Supervised on-site laboratory experience in an approved recreation or leisure service area. Seminar meetings and individual conferences required.
Pre-requisite: Approval of department chairperson.
- 9 2103 299
SELECTED TOPICS RECREATION AND PARK ADMINISTRATION 1-3.0
 Professional inquiry into the study of a selected issue, problem or trend in recreation and park administration.
Pre-requisite: Approval of department chairperson.
- 9 2103 1299 (Winter Session)
WINTER OUTDOOR RECREATION FACILITY OPERATIONS 2.0
 One week course in New England recreation region. On-site lectures on planning, design programming, maintenance and administration of selected winter sport facilities. Special meetings held with regional tourism associates.
Pre-requisite: Approval of department chairperson.
- 9 2103 1299 (Pre-Session, Summer)
SUMMER PROGRAM INSTITUTE 1.0
 Offered cooperatively with the Town of Montclair Recreation and Parks Department. Emphasizes program staff training, leadership training and innovative programming.
- 9 2103 311
SPECIAL EVENTS PLANNING AND PROMOTION 2.0
 Considerations involved in production and promotion of special events that involve large and diverse publics, budgeting, special facilities and equipment, legal considerations, transportation and crowd management. Field visits required.
Pre-requisites: 9 2103 225.
- 9 2103 312
BUDGET AND FINANCE IN RECREATION AND PARKS 3.0
 Study of the various sources and methods of financing, including exploration of the philosophy and mechanics of the budgetary process in recreation and park systems.
Pre-requisites: 9 2103 225.
- 9 2103 322
PHILOSOPHY OF RECREATION AND LEISURE 2.0
 A study and analysis of the philosophical concepts concerning recreation and leisure, including past theories, current thoughts and practices, and philosophical directions for the future of recreation and leisure services in the United States.

9 2103 334
**SURVEY RESEARCH METHODS IN RECREATION AND
 PARK PROFESSIONS** 3.0

An introduction to the various techniques used in survey research. The appropriate application of survey method, tools for investigating questions directly related to problems in the recreation and park professions.

Pre-requisites: 9 2103 225.

9 2103 340
**INTRODUCTION TO COMMERCIAL RECREATION
 AND TOURISM** 3.0

Analysis of the commercial recreation and Tourism industries. Includes a study of participant profiles, types of commercial and resort enterprises, national tourism studies. Employment opportunities trends and issues. Field visits required.

Pre-requisites: 9 2103 124.

9 2103 342
**DELIVERY OF COMMERCIAL RECREATION AND
 TOURISM SERVICES** 3.0

Methods and procedures for organizing and implementing commercial recreation and tourism enterprises. Includes an in-depth analysis of delivery systems, economic and marketing trends and promotion. A class research project is part of the course requirements. Field visits required.

Pre-requisites: 9 2103 340.

9 2103 346
**ECONOMICS OF OUTDOOR RECREATION
 AND TOURISM** 3.0

An overview of the economic impact of outdoor recreation and tourist areas as they pertain to recreation supply and demand, cost/benefit analysis, and environmental quality on local, regional and national levels.

Pre-requisites: 9 2103 340 or 9 2103 360.

9 2103 352
**PUBLIC RELATIONS IN RECREATION AND LEISURE
 SERVICES** 3.0

Methods and techniques of communications to interpret, motivate, promote and publicize recreation and leisure services. Human and technical procedures utilized in recreation and leisure delivery systems.

Pre-requisites: 9 2103 225.

9 2103 360
OUTDOOR RECREATION PLANNING 3.0

Survey of the planning methods and techniques utilized in outdoor recreation resource management, basic planning models, land use, legal foundations and visitor management. A class planning project is a part of the course requirements.

9 2103 361
**IMPLEMENTATION OF OUTDOOR RECREATION
 PROGRAMS** 3.0

Organization and supervisory considerations in the provision of outdoor recreation programs. Emphasis on outdoor living skills, physical and mental fitness, and environmental protection. Topics include program management of outdoor areas, outdoor recreation program standards, safety and interpretation. Field visits required.

Pre-requisites: 9 2103 225.

9 2103 365
**TECHNICAL DESIGN OF RECREATION AND PARK
 AREAS AND FACILITIES** 3.0

The basic considerations in the functional and aesthetic components in recreation and park design. Includes the pre-design and development phases of recreation and park areas and facilities. Circulation, lighting, water systems, health and safety and performance controls on sensitive lands analyzed. Field visits required.

9 2103 367
**MANAGEMENT AND MAINTENANCE OF RECREATION
 AND PARK AREAS AND FACILITIES** 3.0

An investigation of the methods associated with the proper recreation and park areas and facilities. Includes park protection, vandalism, personnel training, maintenance operations, and specialized areas. Field visits required.

Pre-requisites: 9 2103 360.

9 2103 370
THERAPEUTIC RECREATION 1.0

Introduces therapeutic recreation as a profession and a treatment modality.

9 2103 372
RECREATION AND REHABILITATION SERVICES 3.0

Study of roles and interrelationships of professional personnel in the rehabilitation services in medical, correctional, and community settings. The team approach to rehabilitation services will be emphasized. Field visits required.

Pre-requisite: 9 2103 228.

9 2103 377
**PROGRAMMING AND SUPERVISION IN THERAPEUTIC
 RECREATION** 4.0

Includes design, construction, and implementation of programs in therapeutic recreation. Includes supervision and objective evaluation procedures for programs and personnel.

Pre-requisites: Q 401, 241, and 2103 228.

9 2103 381
**COOPERATIVE EDUCATION IN RECREATION
 AND PARKS** 4-8.0

Integration of academic study with supervised employment outside the formal classroom environment. The cooperative education experience is supervised by a faculty member and an agency/organization supervisor.

Pre-requisite: 9 2103 225 and approval of department chairperson.

9 2103 390
**INDEPENDENT STUDY IN RECREATION,
 PARKS AND LEISURE** 1-3.0

Independent study in area of student need and/or interest pertinent to recreation, parks and leisure. Interested students must present detailed written proposal to the department chairman for approval and determination of credit allocation. Sophomore, Junior, Senior standing.

9 2103 430
**MANAGEMENT OF RECREATION AND LEISURE
 SERVICES** 3.0

Administrative functions in the operation of organized recreation, parks and leisure delivery systems.

Pre-requisite: 9 2103 225 Majors Only.

9 2103 437
SENIOR SEMINAR 2.0

Examination and analysis of student preparation for field work and entry into the recreation and park profession. Formal application and placement of field work students. Recreation and leisure studies majors only. Minimum 2.45 cumulative GPA at MSC.

9 2103 489
FIELDWORK IN RECREATION AND PARKS 14.0

Directed full-time professional supervisory experiences in an approved recreation, parks or leisure delivery system. Emphasis on individual development in program planning, conduct and evaluation, budget and finance, legal aspects, community and public relations. For recreation and leisure studies majors only. 2.45 G.P.A. at MSC cumulative 8 2103 437 and approval of dept. chairperson.

Sociology

Chairperson: Jay Livingston

Sociologists deal with varied questions about the social world and the lives of individuals within it. Some areas of concern may be: the way wealth and power affect society, major characteristics of contemporary family life, how individuals organize and influence their everyday social world. Taking sociology courses ensures that the student learns to confront these and other issues.

There are four areas of specialization: sociological, interdisciplinary, preprofessional, and applications of sociology and social action. Students should choose one that fits their interests and goals. A departmental advisor is available to help in the choice.

The sociology major provides the groundwork for fields such as teaching, crime prevention, social work, or law.

The sociology department offers a Bachelor of Arts degree.

Sociology Major

REQUIRED COURSES

Semester Hours

Theory

Select one

- 2208 312 Sociological Theory: Heuristic Approach.....3
 2208 313 Sociological Theory: Critical Analysis3
 2208 411 Selected Topics in Sociological Theory.....3

Methodology

Select one

- 2208 301 Sociological Research Method I3
 2208 412 Selected Topics in Sociological Research
 Methods3

Advanced Course: 300 or 400 level course with

appropriate approval.....3

Action Course:

Select one

- 2208 300 Externship in Sociology.....3
 2208 333 Community Organization in the Arts3
 2208 410 Social Action Practicum.....3
 2208 414 Selected Topics in Applied Sociology.....3

Electives (departmental)

Select 24 sh from the appropriate list to be obtained

from the department.....24

Note: It is important to try to meet the theory and method requirements during the junior year. These courses will prepare students for the work done in advanced courses. Students who are planning to go to graduate school or who intend to do sociological research should take statistics.

Applied Sociology Minor — Emphasis on Helping Professions and Institutions

As part of its Applied Sociology program, the department has an emphasis on helping professions and institutions. It is open to students in all majors who are interested in pursuing careers in the human service field.

Required Courses

Semester Hours

- 2208 336 The Sociology of Helping Professions and
 Institutions.....3
 2208 337 Methods and Techniques in the Helping
 Professions3
 2208 300 Externship in Sociology (Supervised Field
 Work) or3
 2208 410 Social Action Practicum (Supervised Field
 Work).....3

Electives (departmental)

Select 9 sh from the appropriate list to be obtained

from the department.....9

Applied Sociology Minor

EMPHASIS ON WORK AND INDUSTRY

The Sociology Department's Applied Sociology Minor includes a program on Work and Industry. This minor is open to students in all majors who are interested in applying sociological understanding to the areas of labor relations, professions, industrial and other work settings.

Required Courses

Semester Hours

- 2208 304 Sociology of Work and Professions3
 2208 300 Externship in Sociology, or3
 2208 410 Social Action Practicum.....3
 2208 414 Selected Topics in Applied Sociology.....3

Electives

Select 9 sh from the appropriate list to be obtained

from the department.....9

Note: It is possible to have further field experience by doing a project of your choice and taking 2208 310 Directed Independent Research as an elective.

Courses of Instruction

U 2208 100

THE SOCIOLOGICAL PERSPECTIVE

3.0

A systematic introduction to various sociological explanations of human behavior and social structures and processes.

U 2208 101

CRIMINOLOGY

3.0

Crime, the administration of criminal justice and criminal rehabilitation in American society. Cause and effect relationships in criminal deviancy, use of law in social control, and police and minority group relations.

U 2208 112

SOCIOLOGY OF LEISURE

3.0

Leisure as a social problem, work and leisure, the use of leisure time in modern society.

U 2208 113

SOCIAL PROBLEMS

3.0

How social structure and dominant social institutions are related to problems of great concern to people; Various approaches to the study of social problems; The implications of each.

- U 2208 200
SOCIOLOGY OF EDUCATION 3.0
 The entire socialization process; The school as an institution in the process of social change. Distinguishing the concept of education from the institutional confines of the school; The implications of traditionally sacrosanct roles and statutes inherent to education. (Not to be used for teacher certification.)
- U 2208 202
RACIAL AND ETHNIC RELATIONS 3.0
 The social meaning of race and ethnicity. The social, psychological and structural sources of racism; The consequences of this phenomenon to groups; Situation and comparative data.
- U 2208 203
SOCIOLOGY OF ORGANIZED CRIME 3.0
 Organized crime as a sociological phenomenon. The methods and goals of large-scale crime and its economic, political and social costs; Popular attitudes towards organized crime; efforts of enforcement and investigation agencies to deal with the problem.
- U 2208 204
SOCIOLOGY OF THE FAMILY 3.0
 The family from a comparative and historical perspective: The structure and role of the family in contemporary society.
- U 2208 205
BLACK FAMILY 3.0
 The black family in American society; Historical perspectives and contemporary conflicts surrounding the black family.
- U 2208 206
INDIVIDUAL AND SOCIETY 3.0
 Man as a biological, psychological and social being; The socialization process and its effect on the individual; The structure and function of groups.
- U 2208 210
STATISTICS FOR SOCIAL RESEARCH 3.0
 The use of descriptive summary and comparative techniques. Tools for the analysis of relationships in data generated in research, or for the evaluation of published research. (Recommended in preparation for the course in research methods.)
- U 2208 211
SOCIOLOGY OF HEALTH AND ILLNESS 3.0
 Social conceptions of physical and mental health and illness; The social role of the "sick"; Comparative medical beliefs and practices in American society; medical institutions and care; medical personnel and professional ideologies; The relationship between social stratification and health and illness.
- U 2208 212
SOCIOLOGY OF SOCIAL AND TECHNICAL CHANGE 3.0
 The statics and dynamics of modern societies; Institutional development and maintenance; Possibilities for reform and revolutionary movements.
- U 2208 213
SOCIAL STRATIFICATION 3.0
 The inequalities of social ranking systems in virtually all known societies; Theoretical and empirical approaches of stratification; Delineating the variables of power. Power elites, class consciousness, alienation and class mobility.
- U 2208 214
SOCIOLOGY OF VIOLENCE AND CONFLICT 3.0
 The social sources of violence and conflict; The sociological approach contrasted with biological and psychological ones; Interpersonal and institutionalized violence and conflict; The relationship between conflict and violence, war, crime, class conflict, and ethnic and racial hostilities.
- U 2208 231
SOCIAL BASES OF THE ARTS 3.0
 The impact of social forces and institutions on the fine, performing and decorative arts; The social importance and functions of the several arts.
- U 2208 300
EXTERNSHIP IN SOCIOLOGY 3-9.0
 Students will select an institution in the metropolitan area in which to become participant-observer. Application of sociological perspective to the problems and structure of institutions encouraged through faculty supervision. Multiple semester selection permitted with approval.
- U 2208 301
SOCIOLOGICAL RESEARCH METHOD I 3.0
 The formulation of hypotheses, survey design, participant observation and the use of elementary statistics; Certain broad problems in the philosophy of social science.
- U 2208 302
SOCIOLOGICAL RESEARCH METHOD II 3.0
 The formulation of hypothesis, survey design, participant observation and the use of elementary statistics. Certain broad problems in the philosophy of social science.
Pre-requisites: U 2208 301.
- U 2208 303
LARGE SCALE ORGANIZATIONS 3.0
 The structure and functions of bureaucracy in modern society; The life cycle of large organizations and their methods of operation; Selected contemporary problems.
- U 2208 304
SOCIOLOGY OF WORK AND PROFESSIONS 3.0
 The meaning of work in society; Professionalization; occupation ideologies; Social-psychological aspects of attitudes toward work and specific occupations; Occupational stratification; Social structures within which work takes place.
- U 2208 305
DEMOGRAPHY 3.0
 Problems of population and demographic change; Social and psychological foundation of fertility in the contexts of social class and religious ideologies, The impact of urbanization. The uses of demographic data. Transcultural studies, racial differences and ecological factors are discussed.
- U 2208 306
PATTERNS OF COMMUNITY 3.0
 Urban, suburban, rural, regional, national and international communities; Comparison, contrast and syntheses of the sociological research in these areas.
- U 2208 307
THE CITY AND THE ARTS 3.0
 The arts in the functioning of the City: Cityscape and its social meanings; Functions of the various arts in large cities; Impact of city types upon the arts; City Cultural sub-groups and the arts.
- U 2208 308
SOCIOLOGY OF CONSTRUCTIVE VOLUNTARY ACTION 3.0
 Patterns of behavior that exceed normative expectations and the extent of such behavior under circumstances such as war, individual and community disaster, intensive social action periods and non-crisis periods. Contemporary social action processes, such as civil rights and black power movements, national service programs and international service projects.

- U 2208 309
VOLUNTARY ORGANIZATIONS IN AMERICAN LIFE 3.0
 Voluntary organizations in society, comparative study of profit-making and non-profit making organizations and comparison of voluntary organization in democratic and non-democratic nations.
- U 2208 310
DIRECTED INDEPENDENT RESEARCH 3-9.0
 Research and report under faculty direction. The student selects for investigation an area of sociological concern with the approval of a faculty supervisor. Multiple semester selection permitted with approval.
- U 2208 311
URBAN SOCIOLOGY 3.0
 Processes of urbanization and conditions of urban life; Nature of urban social realtionships: Organizations of city life; Urban ecological patterns and demographic conditions; Municipal and regional influences of metropolitan centers.
- U 2208 312
SOCIOLOGICAL THEORY: HEURISTIC APPROACH 3.0
 The nature of sociological theory; How an understanding of social phenomena is possible, how sociological theory develops, what pre-suppositions it is based on, and how different perspectives on social reality can be used by the student of sociology.
- U 2208 313
SOCIOLOGICAL THEORY: CRITICAL ANALYSIS 3.0
 A comparison of important theories on key themes in sociology; The nature of social interaction, the definition of power, stratification, social control and deviance, alienation and anomie, social structure and function, social bases of knowledge and belief, and social conflict and change.
- U 2208 314
STATISTICS FOR SOCIAL RESEARCH 3.0
 The use of descriptive summary and comparative techniques. Tools for the analysis of relationships in data generated in research, or for the evaluation of published research. (Recommended in preparation for the course in research methods.)
- U 2208 320
SOCIOLOGY OF INTENTIONAL COMMUNITIES 3.0
 The sociology, history, and literature of communitarian ventures, with emphasis on contemporary communes, cooperatives and collectives. Literature and philosophy of Utopia will be explored through a sociology of knowledge perspective.
- U 2208 321
WHITE COLOR CRIME 3.0
 An examination of the nature, scope, forms and styles of occupational and business-related criminal activities in the U.S., as well as its social, political and economic implications.
- U 2208 330
POLITICAL SOCIOLOGY 3.0
 This course will endeavor to give the student a relatively complete understanding of the social dynamics of political actions on various levels.
- U 2208 331
SOCIOLOGY OF POWER 3.0
 The nature of power; Power on the national level in the United States; laternative theoretical approaches; The historical origins of several of these theories.
- U 2208 332
SOCIOLOGY OF POPULAR ARTS 3.0
 Components of entertainment including paperback and magazine fiction, movies, theater and popular music; The audiences, content, performers, managers and owners.
- U 2208 333
COMMUNITY ORGANIZATION IN THE ARTS 3.0
 A case study approach, including field work in a laboratory community, will be used to analyze community structure in the arts on the local level. Topics will include the social forces in the local arts council movement, the amateur and semiprofessional arts groups in fine, performing, and decorative arts; the community concert society; social correlates to local participation; home arts.
- U 2208 334
COMPARATIVE SOCIAL ANALYSIS 3.0
 Comparative sociological schemes; The analytical blocks of total society. Kinship, family and marriage, Policy and Bureaucracy; Social stratification and mobility; industrialization and urbanization; Belief systems and value orientations.
- U 2208 335
WORKERS AND THEIR ORGANIZATIONS 3.0
 The course aims to provide the student with a general overview of the nature of work in modern society and of the ways in which workers react to it. In particular, the ways in which workers' organizations develop, and are shaped by community and political forces, will be an important focus.
- U 2208 336
THE SOCIOLOGY OF HELPING PROFESSIONS AND INSTITUTIONS 3.0
 This course focuses on the social functions, determinants, and consequences of helping professions such as social work, and helping institutions such as public welfare. Particular emphasis is placed on the relations of helping professions and institutions with their socio-political environment and with their clients.
- U 2208 337
METHODS AND TECHNIQUES IN THE HELPING PROFESSIONS 3.0
 This course focuses on the social processes involved in working with and helping people in such endeavors as social work and in such settings as hospitals. Particular emphasis is placed on understanding the dominant contemporary methods and techniques which are used to provide help to those in need.
- U 2208 341
SOCIOLOGY OF POVERTY AND WELFARE 3.0
 Poverty and welfare institutions as social phenomena. The meaning of poverty; Absolute and relative deprivation. The functions of social welfare institutions.
- U 2208 345
SOCIOLOGY OF FOOD AND POPULATION 3.0
 This course will examine the ways in which people's food production and consumption patterns are affected by and related to other aspects of their social organization. The interrelationship between food production/consumption patterns, political life, stratification systems, and demography will be examined. The main focus will be a comparison between different forms of social organization with respect to the management of food and population issues.
- U 2208 390
COOPERATIVE EDUCATION IN SOCIOLOGY 8.0
 The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The coop term is a semester off campus, during which a student is supervised by a faculty coordinator and the office of cooperative education and is responsible for completing the terms of a learning contract.
- U 2208 401
SOCIAL STRUCTURE OF AMERICAN SOCIETY 3.0
 Empirical materials on social structure; inter-institutional relations as the form of the broad, general structure of American society.

U 2208 402
THE SOCIAL ROLE OF PSYCHOTHERAPIES 3.0
 Various psychotherapies, from classical Freudian to encounter groups in relation to existing culture and to the feasible application of these therapies.

U 2208 403
SOCIOLOGY OF KNOWLEDGE 3.0
 The social origins of anything considered to be knowledge in a given social environment.

U 2208 404
SOCIOLOGY OF RELIGION 3.0
 The social bases of religious belief and activity. Religious movements, denominationalism, sectarianism, secularization, pluralism, the social bases of belief and unbelief, and cross-cultural and historical comparisons.

U 2208 405
DEVIANCE AND SOCIAL CONTROL 3.0
 Various theoretical perspectives on human deviance; The interaction of the forces of social control and "deviant" behavior.

W 2208 406
SOCIOLOGY OF SMALL GROUPS 3.0
 Structured along lines of educational self-analytic groups. Students will learn about small group dynamics and interpersonal processes by studying the on-going interaction of the class as small groups.
Pre-requisite: U 2208 206.

U 2208 407
SOCIOLOGY OF THE MASS MEDIA 3.0
 The social aspects of the organization and functioning of television, radio, press, magazines, film and other media. The media in social control, in information and other communication, and as forces influencing behavior.

U 2208 408
SOCIAL MOVEMENTS 3.0
 This course focuses on the study of concerted collective behavior for social change, or social movements. Various approaches to the understanding of social movements, including the natural history, case study, and analytical models, will be examined. Emphasis will be placed on relating theoretical work to contemporary empirical examples to social movement activity.

U 2208 410
SOCIAL ACTION PRACTICUM 3-9.0
 Students, individually or in groups, design and implement field research and activity with an explicit, culturally defined objective, as an exercise in "applied sociology".

U 2208 411
SELECTED TOPICS IN SOCIOLOGICAL THEORY 3.0
 The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to only the general area of sociological theory.

U 2208 412
SELECTED TOPICS IN SOCIOLOGICAL RESEARCH METHODS 3.0
 The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to projects or study in research methodology.

U 2208 413
SELECTED TOPICS IN INSTITUTIONAL PROCESSES 3.0
 The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to a consideration of problems in institutional processes.

U 2208 414
SELECTED TOPICS IN APPLIED SOCIOLOGY 3.0
 The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to the application of sociological methodology, theory or content to social situations, or to community issues or problems.

U 2208 420
SOCIOLOGY OF LAW 3.0
 The impact of the social usages of law on all levels of operation as an instrument of social policy, social control and social regulation.

U 2208 421
SOCIAL USES OF LANGUAGE 3.0
 To explore the function of language in everyday life, focusing on the implications of the sociology of language for the understanding of such other areas of religion, and social change.

U 2208 422
SOCIOLOGY AND PHILOSOPHY 3.0
 The philosophical roots, as well as the relevance of philosophy for the sociological enterprise, will be major theme. An emphasis will also be placed on the contributions that sociology may offer to the task of "philosophizing".
Pre-requisites: U 2208 312, U 2208 313 Instructor's Permission.

U 2208 425
SOCIOLOGY OF THE FUTURE 3.0
 An examination of the study of probable effects of alternative futures to American society. This course will examine, also, the manner in which such alternatives are studied; the role of prediction by scientific means, And the use of probabilities in projecting the outline of our society in the near and great future.

U 2208 430
SOCIOLOGY OF SEX ROLES 3.0
 The social determinants of differences between women and men and the effect of sex role differentiation in the social institutions of marriage and family, the economy and work situation, formal education, health, mass media, and religion. Special emphasis is placed on the impact of social change on sex roles in contemporary society.



Spanish and Italian

Chairperson: Norman Fulton

The major in Spanish or Italian develops sound scholarship by helping the student acquire linguistic fluency along with an understanding of Italian and Hispanic cultures.

Candidates for the B.A. choose an area of concentration in the Italian language, literature and culture; the Spanish language, Peninsular Spanish literature and culture; Spanish-American literature and culture; or courses in translating and interpreting.

Majors are urged to spend a year, a semester, or a summer studying in Italy or a Spanish speaking country. This study should be planned for the junior year. Majors who intend to pursue graduate studies are urged to acquire proficiency in at least one additional language.

Students may also minor in Italian or Spanish, second teaching fields in both languages and interdisciplinary minors in Hispanic Community affairs and Paralegal Studies. Courses in Portuguese are also available. Introduction to General Linguistics is required for all Spanish and Italian majors.

Spanish Major

REQUIRED COURSES

24 sh	Semester Hours
1105 141 Grammar and Composition I.....	3
1105 142 Grammar and Composition II.....	3
1105 151 Masterpieces of Spanish Literature I.....	3
1105 152 Masterpieces of Spanish Literature II.....	3
1105 161 Masterpieces of Spanish-American Literature I..	3
1105 162 Masterpieces of Spanish-American Literature II	3
1105 260 Spanish Cultural History.....	3
1105 270 Spanish-American Cultural History.....	3

Electives (major)

Select 12 sh with at least one course from literature and one from language. Obtain elective list from the department.

Spanish Minor

Required Courses

	Semester Hours
1105 141 Grammar and Composition I.....	3
1105 142 Grammar and Composition II.....	3
1105 152 Masterpieces of Spanish Literature II.....	3
1105 162 Masterpieces of Spanish-American Literature II	3
1105 260 Spanish Cultural History.....	3
or	
1105 270 Spanish-American Cultural History.....	3

Electives (major)

3

Select 3 sh in a literature course.

Hispanic Community Affairs Minor

Required Courses

1105 472 Puerto Rican Literature and Thought	3
or	
1105 280 Cuban Cultural History	3

Electives..... 12

Select courses from the interdepartmental list obtained from the department of Spanish and Italian

Field Work

Semester Hours

Select 3 courses

1105 360 Hispanic Community Program	3
1105 481 Field Work I	3
1105 482 Field Work II.....	3
1105 483 Field Work III	3

NOTE: Students who are not bilingual will be accepted into the program with the understanding that they will become proficient in Spanish before their field work or Spanish courses.

Paralegal Studies Minor

The Paralegal Studies Minor, in combination with any number of diverse majors, prepares the student to work in many legally-related fields. The 24 sh minor, is open to students who have completed at least their freshman year of college studies. An optional Hispanic Specialization, through internship and training offered in the Spanish Department, is available to students fluent in Spanish. A Certificate is awarded to students completing the minor. For a complete description of the Paralegal Studies Program contact the department.

Teacher Certification

Students interested in teaching Spanish must be admitted to the Teacher Education program. See the department of Curriculum and Teaching for admission requirements and professional sequence. As part of the professional sequence for Spanish, this course must be taken.

1105 419 The Teaching of Spanish in Secondary Schools...	3
--	---

Second Teaching Field in Spanish

Required Courses

1150 141 Grammar and Composition I.....	3
1105 142 Grammar and Composition II.....	3
1105 209 Introduction to Spanish Phonetics	3
1105 260 Spanish Cultural History, or	3
1105 270 Spanish-American Cultural History.....	3
1105 309 Spanish Conversation.....	3
1105 410 Spanish Grammar for Teachers	3

Electives (major)..... 6

Select 6 sh in literature courses from the appropriate list to be obtained from the department.

NOTE: If a student has not studied a teaching methods course in foreign language, it is necessary to take 1105 419, The Teaching of Spanish in Secondary Schools.

Italian Major

REQUIRED COURSES

1104 141	Italian Grammar and Composition I.....3
1104 142	Italian Grammar and Composition II.....3
1104 160	Italian Cultural History I.....3
1104 161	Italian Cultural History II.....3
1104 240	Italian Literature: Origins to 18th Century.....3
1104 241	Italian Literature: 18th to 20th Centuries.....3

Electives (major)..... 18

Select 18 sh from the appropriate list obtained from the department.

Italian Minor

Required Courses

1104 141	Grammar and Composition I.....3
1104 142	Grammar and Composition II.....3
1104 160, 161	Italian Cultural History I and II.....6
1104 240	Italian Literature, Origins to 18th Century.....3
1104 241	Italian Literature, 18th through 20th Centuries..3

Teacher Certification

Students interested in teaching Italian must be admitted to the Teacher Education program. See the department of Curriculum and Teaching for admission requirements and professional sequence. As part of the professional sequence for Italian this course must be taken.

1104 419	The Teaching of Italian in Secondary Schools.....3
----------	--

Second Teaching Field in Italian

1104 141	Italian Grammar and Composition I.....3
1104 142	Italian Grammar and Composition II.....3
1104 160, 161	Italian Cultural History I and II.....6
1104 209	Italian Conversation.....3
1104 240	Italian Literature: Origins to 18th Century.....3
1104 241	Italian Literature: 18th through 20th Centuries..3
1104 410	Italian Grammar for Teachers.....3

NOTE: If a student has not studied a teaching methods course in foreign language, it is necessary to take 1104 419, The Teaching of Italian in Secondary Schools.

Courses of Instruction

V 1104 101
ITALIAN I 3.0
For students with no previous knowledge of Italian. This course imparts the basic foundations in the language.

V 1104 102
ITALIAN II 3.0
Training in understanding, speaking, reading and writing the language. A continuation of Italian I.
Pre-requisite: V 1104 101 or equivalent.

V 1104 103
ITALIAN III 3.0
A continuation of Italian II to strengthen the four language skills.
Pre-requisite: V 1104 102 or equivalent.

V 1104 104
ITALIAN IV 3.0
A continuation of Italian III to strengthen the basic language skills through reading and composition.
Pre-requisite: V 1104 103 or equivalent.

V 1104 141
ITALIAN GRAMMAR AND COMPOSITION I 3.0
Gives students better control of the structure of the language through written and oral practice. Required for majors.
Pre-requisite: V 1104 104.

V 1104 142
GRAMMAR AND COMPOSITION II 3.0
Mastery of the language through written and oral exercises. Review of advanced Grammar. Required for majors.
Pre-requisite: V 1104 141.

V 1104 160
ITALIAN CULTURAL HISTORY I 3.0
An outline of Italian history and culture from the Middle Ages to the renaissance. Medieval political, social and cultural realities: Church, empire, national monarchies and free cities. The humanism and the renaissance: Philosophical, artistic, literary and musical expressions. Required for majors.
Pre-requisite: V 1104 104.

V 1104 161
ITALIAN CULTURAL HISTORY II 3.0
An outline of Italian history and culture from the 16th century to the present. Galileo and the development of modern scientific thought; the Italian opera. The enlightenment in Italy: Social, philosophical and legal literature. The Risorgimento, the political unification and the emerging of a national culture. Issues in modern Italy: The fascist adventure and the emerging of new political and social forces. Required for majors.
Pre-requisite: V 1104 160.

V 1104 209
ITALIAN CONVERSATION 3.0
Practice in spoken Italian through assigned topics and discussions about daily life and world events. An opportunity to acquire an adequate vocabulary and competence in Italian as an instrument of oral expression.
Pre-requisite: V 1104 104.

V 1104 240
STUDIES IN ITALIAN LITERATURE: ORIGINS TO 18th CENTURY 3.0
Representative works from the Scuola Siciliana to the 18th century analyzed and discussed. Required for majors.
Pre-requisite: V 1104 104.

V 1104 241
STUDIES IN ITALIAN LITERATURE: 18th THROUGH 20th CENTURIES 3.0
Representative works of the 18th through 20th centuries analyzed and discussed to train students in the analysis of literary works. Required for majors.
Pre-requisite: V 1104 104.

V 1104 277
ITALIAN LITERATURE OF THE 18th CENTURY 3.0
The most important representatives of this century. Goldoni: *Memoires e la riforma della commedia*, *Bottega del caffè*, *La Moglie Saggia*, *Il Vero Amico*, *La Locandiera*, etc. Parini: *Giorno*, *odi*. Alfieri: *Rime*, *Saul*, *Mirra*, *Il Divorzio*.
Pre-requisite: V 1104 240.

- V 1104 341
ITALIAN LITERATURE OF THE RENAISSANCE I 3.0
The development of humanism in Italy through a study of significant works of representative authors of the 14th, 15th and 16th centuries. 0341-Emphasis on Petrarch, Canzoniere, Secretum, Tionfi, and Boccaccio: Decamerone.
Pre-requisites: V 1104 240, 1104 241.
- V 1104 342
ITALIAN LITERATURE OF THE RENAISSANCE II 3.0
The development of humanism in Italy through a study of significant works of representative authors of the 14th, 15th and 16th centuries. 0342-Selected Readings from Lorenzo de Medici, Poliziano, Pulci, Boiardo, Ariosto, Tasso, Machiavelli and others.
Pre-requisites: V 1104 240 and 241.
- V 1104 351
ITALIAN LITERATURE OF THE 20th CENTURY I 3.0
Particular attention to the contemporary period. 0351 — Pirandello: *Novelle per un anno*, *Così è*, *Sei personaggi in cerca d'autore*. Saba: *Canzoniere*. Ungaretti: *l'allegria*, *Sentimento del tempo*. Montale: *Ossi di seppia*. Quasimodo: *Ed e' subito sera*.
Pre-requisite: V 1104 241.
- V 1104 352
ITALIAN LITERATURE OF THE 20th CENTURY II 3.0
Particular attention to the contemporary period. 0352 — Pavese: *La luna e i falò*. Moravia: *Agostino*, *Racconti Romani*, *Silone: Pane e vino*. Vittorini: *Conversazioni in Sicilia*, and others.
Pre-requisite: V 1104 241.
- V 1104 361
ITALIAN LITERATURE OF THE 19th CENTURY I 3.0
Neo-classicism, romanticism, and verismo. 0361 — Foscolo: *Sonetti*, *Sepokri*, *Ultime lettere di Jacopo Ortis*. Manzoni: *Inni sacri*, *Promessi sposi*, Leopardi: *Canti*, *Operette morali*.
Pre-requisite: V 1104 241.
- V 1104 362
ITALIAN LITERATURE OF THE 19th CENTURY II 3.0
Neo-classicism, romanticism, and verismo. 0326 — Carducci: *Rime nuove*, *Odi barbare*, *Rime*. Pascoli: *Odi e inne Myricae*. Verga: *Novelle rusticane*. D'Annunzio: *Laudi*, *Novelle della pescara*.
Pre-requisite: V 1104 241.
- V 1104 371
ITALIAN LITERATURE OF THE 13th and 14th CENTURIES 3.0
The most important representatives of the Sicilian and Tuscan schools, with particular attention to the *Dolce Stil Novo* and the works of Dante.
Pre-requisite: V 1104 240.
- V 1104 375
STUDY ABROAD 3.0
Study at an Italian university; Opportunity to gain first hand knowledge of the historical, social, economic and cultural life of Italy. Credit by evaluation.
Pre-requisite: Permission of Department Chairman.
- V 1104 410
ITALIAN GRAMMAR FOR TEACHERS 3.0
Structural features of Italian areas of interference with English structure which present the greatest difficulties to the student of Italian.
Pre-requisites: Seniors only.
- V 1104 419
THE TEACHING OF ITALIAN IN SECONDARY SCHOOLS 3.0
Aims, objectives, and methods of teaching Italian in secondary schools textbooks, supplementary teaching material, the language laboratory, tests, etc.
Pre-requisites: V 1104 240 and 241.
- V 1104 461
DANTE SEMINAR I 3.0
Medieval thought as represented in Dante's works. A selection of reading from *Vita Nova*, *Convivio*, *Monarchia*. Analysis and exegesis of *Inferno*.
Pre-requisites: V 1104 240, V 1104 241.
- V 1104 462
DANTE SEMINAR II 3.0
Medieval thought as represented in Dante's works. A selection of readings from *Vita Nova*, *De Vulgari Eloquentia*, *Convivio*, and *Divina Commedia* read and analyzed.
Pre-requisites: V 1104 240, V 1104 241.
- V 1104 470
SENIOR SEMINAR 3.0
The techniques of literary research based on selected topics from Italian literature.
Pre-requisite: Senior majors only.
- V 1104 480
INDEPENDENT STUDY 3.0
Directed independent study and research in Italian. Open to students with a minimum of 3.0 cumulative average in at least 9 hours of Italian electives.
Pre-requisite: 24 hours of major Italian credits.
- V 1105 101
SPANISH I 3.0
For students with no previous Spanish. Training in understanding, speaking and writing the language.
- V 1105 102
SPANISH II 3.0
Training in understanding, speaking, reading and writing the language. A continuation of Spanish I.
Pre-requisite: V 1105 101 or equivalent.
- V 1105 103
SPANISH III 3.0
A continuation of Spanish II to strengthen the language skills of understanding, speaking, reading and writing of the language.
Pre-requisite: V 1105 102 or equivalent.
- V 1105 104
SPANISH IV 3.0
A continuation of Spanish III to strengthen the skills of understanding, speaking, reading and writing of the language.
Pre-requisites: V 1105 103, V 1105 120 or equivalent.
- V 1105 105
PRACTICAL SPANISH FOR LEGAL PERSONNEL 3.0
Course designed to provide personnel dealing with Hispanics in legally-related situations with a basic knowledge of the Spanish language as it relates to the performance of their jobs in assisting Hispanics whose problems vary from tenancy and divorce to welfare, social security, immigration, etc. Not for major credit.
- V 1105 106
TRANSLATING FOR PARAPROFESSIONALS 3.0
Course designed to improve the translating skills of bilingual personnel working with the Hispanic community in the setting of a legal service agency. Not for major credit. *Pre-requisite: Good writing skills in Spanish and English.*

V 1105 107

INTERPRETING FOR PARAPROFESSIONALS 3.0

Course designed to provide bilingual personnel (Spanish and English) with the basic specialized skills necessary to interpret for Spanish-speaking clients whose attorneys or professional assistants do not speak Spanish. Course designed to be a practical guide for those working in the area, to enable them to maximize their skills in the area of interpreting. Not for major credit. Pre-requisites: Fluency in oral and written Spanish and English.

V 1105 108

PRACTICAL SPANISH FOR HOSPITAL PERSONNEL 3.0

This course provides medical personnel with the ability to communicate with their Spanish-speaking patients. The student learns to ask pertinent questions regarding health problems, to give basic instructions and directions, to be able to carry on limited conversation and to be able to read and write Spanish. Not for major credit.

V 1105 110

PRACTICAL SPANISH FOR LAW ENFORCEMENT PERSONNEL 3.0

Course designed to provide law enforcement officials and persons in related areas with a basic knowledge of the Spanish language as it pertains to the performance of their duties in the Hispanic community. Completion of the course will give the student a knowledge of Spanish which will enable him to deal with those immediate problems where the use of English is not possible. Not for major credit.

V 1105 120

COMPREHENSIVE SPANISH I AND II 3.0

For students who have studied one or two years of high school Spanish and who scored below 450 on college board achievement tests, or have had an interruption of at least one semester in the study of Spanish after one or two years in high school. Basically Spanish I and II telescoped into one semester.

V 1105 135

ADVANCED PRACTICE IN SPANISH FOR NON-MAJORS 3.0

This course provides students who are not Spanish majors with a program which enables them to perfect their command of both written and spoken Spanish beyond the intermediate II level. The course is unique in that it places equal stress upon speaking, reading and writing in order to enable the student to function effectively with Spanish-speaking people in the student's chosen profession. Emphasis is placed upon the more practical aspects of language learning.

Pre-requisite: V 1105 104.

V 1105 140

COMPREHENSIVE SPANISH III AND IV 3.0

For students with three or four years of high school Spanish with scores between 500 and 600 on college board achievement test, or with an interruption in their studies of Spanish of at least one year. Basically Spanish III and IV telescoped into one semester.

Pre-requisites: V 1105 102 or 120.

V 1105 141

GRAMMAR AND COMPOSITION I 3.0

This course is designed to give students an active command of the language by means of oral and written exercises, accompanied by a thorough review of the grammar, vocabulary, and idioms. Required for majors.

Pre-requisites: V 1105 104 or, V 1105 140.

V 1105 142

GRAMMAR AND COMPOSITION II 3.0

This course is designed to improve the student's mastery of the language through written and oral exercises accompanied by a review of advanced grammar. Required for majors.

Pre-requisite: V 1105 141.

V 1105 151

MASTERPIECES OF SPANISH LITERATURE I 3.0

The course is designed to introduce the students to Spain's literary history through an analysis of its major works, movements, and cultural trends from the medieval period to XVIII century. Required for majors.

Pre-requisite: V 1105 104.

V 1105 152

MASTERPIECES OF SPANISH LITERATURE II 3.0

The course is designed to introduce the student to Spain's literary history through an analysis of its major works, movements, and cultural trends from XVIII century to the present. Required for majors.

Pre-requisite: V 1105 151.

V 1105 161

MASTERPIECES OF SPANISH-AMERICAN LITERATURE I 3.0

The aim of the course is to give the student a general and comprehensive understanding of Spanish-American literature from pre-Columbian times to the latter part of the nineteenth century. Required for majors.

Pre-requisite: V 1105 104.

V 1105 162

MASTERPIECES IN SPANISH-AMERICAN LITERATURE II 3.0

The aim of the course is to give the student a general and comprehensive understanding of Spanish-American literature from the beginning of modernism to the contemporary period. Required for majors.

Pre-requisite: V 1105 161.

V 1105 209

INTRODUCTION TO SPANISH PHONETICS 3.0

Spanish phonetics and phonemics: Theory and practice. Comparative analysis of Spanish and English phonology. The language laboratory is used extensively. Required for certification.

Pre-requisites: V 1105 104 OR, V 1105 140.

V 1105 221

COMMERCIAL SPANISH 3.0

For students interested in the business field: Styles of letter writing, vocabulary peculiar to business, legal terminology. Emphasis on written fluency and expression.

Pre-requisite: V 1105 141.

V 1105 260

SPANISH CULTURAL HISTORY 3.0

The political, social, philosophical, literary and artistic ideas and institutions of Spain. Required for majors.

Pre-requisites: V 1105 104 OR, V 1105 140.

V 1105 265

THE SPANISH-AMERICAN NOVEL 3.0

Development of the Spanish-American novel up to 1945.

Pre-requisites: V 1105 161, V 1105 162.

V 1105 270

SPANISH-AMERICAN CULTURAL HISTORY 3.0

Development of the politics, art and philosophy of the Spanish-speaking nations of the western hemisphere. Required for majors.

Pre-requisites: V 1105 104 OR, V 1105 140.

- V 1105 280
CUBAN CULTURAL HISTORY 3.0
 A survey of the Cuban cultural development from the time of its discovery up to the present. This course is especially designed to acquaint the Cuban born or the Cuban-American student with his cultural roots and to inform other interested Hispanic and Anglo-American students about the cultural heritage of Cuba.
Pre-requisite: V 1105 104 or 140.
- V 1105 309
SPANISH CONVERSATION 3.0
 Practice in spoken Spanish through assigned topics and participation in discussions about daily life and world events. Gives a competence in Spanish as an instrument of oral expression. Classes limited to 16 students. Required for certification.
Pre-requisite: V 1105 141.
- V 1105 340
MIDDLE AGES IN SPAIN 3.0
 Medieval Spanish masterpieces will be selected as basic topics around which the background that made them possible will be studied in an effort to bring to light the intricate relationship between the outstanding men of letters and their times.
Pre-requisites: V 1105 151, V 1105 152.
- V 1105 345
CHILDREN'S LITERATURE OF HISPANIC WORLD 3.0
 A study of the children's literature of Spain and Spanish America. Readings from traditional children's songs, poems, stories, plays and from works written for children by distinguished Spanish authors such as Benavente, Gabriela Mistral, and Garcia Lorca.
Pre-requisites: V 1105 152, V 1105 162.
- V 1105 350
TRANSLATING I 3.0
 Techniques of translating Spanish-English, English-Spanish. Analysis of variations in connotation, emphasis, style, sentence structure, expression of ideas and images.
Pre-requisites: V 1105 141, V 1105 142.
- V 1105 351
TRANSLATING II 3.0
 Techniques of translating Spanish-English, English-Spanish. Analysis of variations in connotation, emphasis, style, sentence structure, expression of ideas and images.
Pre-requisite: V 1105 350.
- V 1105 352
PRACTICUM IN TRANSLATING 3.0
 This course is designed to provide students with the practical experience of translating in semi-professional situations under faculty supervision. Translating work may include journalistic materials, such as the monthly edition of the Montclair, publications of the Life Skills Center, etc.
Pre-requisite: V 1105 350.
- V 1105 360
HISPANIC COMMUNITY PROGRAM 3.0
 Interdisciplinary approach to field work in an area of the Spanish-speaking communities in New Jersey. Open to anyone in the college with working knowledge of Spanish. 9 semester hours will be given by the Spanish Department and two other departments selected by the student.
- V 1105 365
SPANISH NOVEL OF THE 20th CENTURY 3.0
 The modern novel in Spain beginning with the generación del '98.
Pre-requisites: V 1105 151, V 1105 152.
- V 1105 367
SPANISH-AMERICAN ESSAYISTS 3.0
 The role of the essay in Spanish-American life and culture. Studies of selected modern essayists.
Pre-requisites: V 1105 161, V 1105 162
- V 1105 368
CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3.0
 Trends in the contemporary short story. The short story as an important genre in Spanish-American letters.
Pre-requisites: V 1105 161, V 1105 162.
- V 1105 369
THE DRAMA OF THE GOLDEN AGE 3.0
 Representative dramatists of the Siglo de Oro: Lope de Vega, Tirso de Molina, Ruiz de Alarcón and Calderón de la Barca.
Pre-requisites: V 1105 151, V 1105 152.
- V 1105 370
CONTEMPORARY SPANISH-AMERICAN POETRY 3.0
 Leading 20th Century poets beginning with Dario, with a special emphasis on modernismo.
Pre-requisites: V 1105 161, V 1105 162.
- V 1105 371
SPANISH POETRY AND DRAMA OF THE 19th CENTURY 3.0
 A critical study of the main works of this century beginning with Duque de Rivas and Espronceda through Echegaray and Galdós.
Pre-requisites: V 1105 151, V 1105 152.
- V 1105 372
SPANISH PROSE OF THE 19th CENTURY 3.0
 The main works in romanticism, realism and naturalism in 19th Century Spain.
Pre-requisites: V 1105 151, V 1105 152.
- V 1105 375
STUDY ABROAD 3.0
 Study at a university in a Spanish-speaking country to gain firsthand knowledge of the historical, social, economic and cultural life of an Hispanic country. Pre-requisites: Permission of department chairman. Credit by evaluation.
- V 1105 410
SPANISH GRAMMAR FOR TEACHERS 3.0
 This course is a review of the most important structural features of Spanish, with special emphasis in those areas of interference with English structure which present the greatest difficulties to the student of Spanish. Required for certification.
Pre-requisite: V 1105 142.
- V 1105 419
THE TEACHING OF SPANISH IN SECONDARY SCHOOLS 3.0
 Values and aims in foreign language teaching, survey of methods, pronunciation, reading, grammar, reviews, realia, examinations, supervised study, etc. Readings and discussions, lesson planning and demonstrations, and organization of material for student teaching. Required for certification.
Pre-requisite: Senior standing.
- V 1105 445
THE EVOLUTION OF THE SPANISH LANGUAGE 3.0
 The development of the Spanish language from its origin to the present day, within the framework of other neo-Latin languages, the phonological and structural changes which occurred through historical development.
Pre-requisite: V 1105 142.

V 1105 450
CONSECUTIVE AND SIMULTANEOUS INTERPRETATION 3.0
 This course is designed to teach the student the specialized techniques of oral interpretation, both consecutive and simultaneous, to help prepare him to pursue the career of a professional translator and interpreter.
Pre-requisites: V 1105 350, V 1105 351.

V 1105 452
TRANSLATING III 3.0
 A continuation of Translating II. The student will translate a text of 50 to 100 pages in his or her specific field of interest for which there exists no published translation.
Pre-requisites: V 1105 350, V 1105 351.

V 1105 460
EL QUIJOTE 3.0
 The literary and social background, structure, themes and style of El Quijote as a masterpiece.
Pre-requisites: V 1105 151, V 1105 152.

V 1105 465
SPANISH THEATER OF THE 20th CENTURY 3.0
 Principal trends of the Spanish theater from Benavente to the contemporary dramatists.
Pre-requisites: V 1105 151, V 1105 152.

V 1105 466
CONTEMPORARY SPANISH-AMERICAN THEATER 3.0
 The principal movements of the theater in Spanish America in the 20th Century.
Pre-requisites: V 1105 161, V 1105 162.

V 1105 470
SENIOR SEMINAR 3.0
 Selected topics from Spanish and Spanish-American literature acquaint the student with the techniques of literary research.
Pre-requisites: Senior majors only/Permission of instructor.

V 1105 471
CONTEMPORARY TRENDS IN THE SPANISH-AMERICAN NOVEL 3.0
 The contemporary novel in Spanish America, with emphasis on the nueva novela.
Pre-requisite: V 1105 162.

V 1105 472
PUERTO RICAN LITERATURE AND THOUGHT 3.0
 Insight into the literature and philosophy of the Caribbean Hispanic world; Contemporary Puerto Rican writers and the emergent Puerto Rican influence in the United States metropolitan areas.
Pre-requisites: V 1105 161, V 1105 162.

V 1105 475
SEMINAR ON HISPANIC CULTURE IN THE UNITED STATES 3.0
 A study of the Hispanic cultures and their adaptation culturally and linguistically to the U.S., considering especially Puerto Ricans, Chicanos and other minority groups.
Pre-requisites: V 1105 472 Instructor's Permission.

V 1105 476
SEMINAR ON HISPANIC CULTURE IN NEW JERSEY 1.0
 A study of principal Hispanic communities in the state of N.J. Considering reasons for settlement and culture background, present situations as well as projections.

V 1105 480
INDEPENDENT STUDY 3.0
 Directed independent study and research in Spanish. Open to students with a 3.0 cumulative average in at least 9 semester hours of Spanish electives. Pre-requisites: 24 hours of major Spanish credit.

V 1105 481
FIELD WORK IN HISPANIC COMMUNITY I 3.0
 Required course in the academic minor in Hispanic community affairs. Student will devote 100 hours work in the area in which he chooses to concentrate child care centers, mental health clinics, recreation activities, social agencies, etc., under the supervision of the MSC Passaic Center. In addition, the student must carry out an independent project by which he will demonstrate his ability to communicate with and engage the Hispanic community. Not for major credit.
Pre-requisite: V 1105 360.

V 1105 482
FIELD WORK IN HISPANIC COMMUNITY II 3.0
 A continuation of 1105 481. Student may continue in chosen job center, or may choose to enter a new related field. 100 hours work required for completion of credit. Not for major credit.
Pre-requisites: V 1105 481 Instructor's Permission.

V 1105 483
FIELD WORK IN HISPANIC COMMUNITY III 3.0
 Continuation of 1105 482. Student may continue in chosen job center, or may choose to enter a new related field. 100 hours work required for completion of credit. Not for major credit.
Pre-requisites: V 1105 482 Instructor's Permission.

V 1198 101
PORTUGUESE I 3.0
 For students with no previous study of Portuguese. Training students to understand, speak, read and write the language.

V 1198 102
PORTUGUESE II 3.0
 A continuation of Portuguese I, furthering the training in the understanding, speaking, reading and writing of the language.
Pre-requisite: V 1198 101 or equivalent.

V 1198 103
PORTUGUESE III 3.0
 Strengthening the basic language skills established in Portuguese II through advanced grammar and selected readings.
Pre-requisite: V 1198 102 or equivalent.

V 1198 104
PORTUGUESE IV 3.0
 A continuation of Portuguese III, to strengthen basic language skills through advanced grammar and selected readings.
Pre-requisite: V 1198 103 or equivalent.

V 1198 141
PORTUGUESE GRAMMAR AND COMPOSITION I 3.0
 Advanced course on Portuguese grammar to afford student an opportunity to practice in composition and conversation such points of structure and usage as sentence construction, agreement, prepositions, sequence of tenses, the subjunctive, and uses of *ser* and *estar*.
Pre-requisite: V 1198 104.

V 1198 142
PORTUGUESE GRAMMAR AND COMPOSITION II 3.0
 This course continues the examination and review of grammatical structures and usage, and provides the students further opportunity to perfect their writing and speaking abilities in Portuguese.
Pre-requisite: V 1198 141.

V 1198 160
MASTERPIECES IN PORTUGUESE LITERATURE 3.0
 An intensive study of representative works by the most important authors of each major period in Portuguese literature.
Pre-requisite: V 1198 104.

V 1198 162
MASTERPIECES IN BRAZILIAN LITERATURE 3.0
 An intensive study of representative works by the most important authors of each major period in Brazilian literature.
Pre-requisite: V 1198 104.

V 4903 161
MAGIC REALISM IN SPANISH-AMERICAN LITERATURE 3.0
 A study of magic realism as manifested in representative works of contemporary Spanish-American fiction. Works to be read in English translation. Taught in English.

V 4903 176
ITALIANS AND ITALIAN AMERICANS: COMPARATIVE STUDIES 3.0
 The course shows the relationship between the Italian and Italian-American experiences. It deals with aspects of religion, politics, language, work and moral codes, comparisons are made with the experiences of other ethnic groups in America. The course is taught with an interdisciplinary approach. Taught in English.

V 4903 180
LUSO-BRAZILIAN LITERATURE 3.0
 A study of the major writers in the Portuguese speaking world in the 19th and 20th Centuries, including Machado de Assis and Eca de Queiros. Taught in English.

V 4903 276
THE GOLDEN AGE 3.0
 Major dramatists of the Peninsular Spanish golden age: Lope de Vega, Tirso de Molina, Ruiz de Alarcón and Calderón de la Barca. Taught in English.

V 4903 277
THE ITALIAN CINEMA 3.0
 Development of the Italian cinema from neo-realism to today, In particular dealing with the following directors: Rossellini, Fellini, Desica, Zavattini, Bertolucci, Pasolini, Antonioni, Germi and Wertmüller.

V 4903 278
SPANISH LITERATURE OF THE 20th CENTURY 3.0
 Designed for non-Spanish majors who wish to read major Spanish literary works in English translation. Authors included are Unamuno, Ortega y Gasset, García Lorca, Machado and Juan R. Jiménez.

V 4903 280
20th CENTURY ITALIAN LITERATURE 3.0
 Selected writers illustrating the main currents of 20th Century Italian literature: Pirandello, Ungaretti, Montale, Pavese, Betti, Vittorini, Silone, Moravia and others.

V 4903 372
CONTEMPORARY LATIN-AMERICAN THEATER 3.0
 This course aims to acquaint the student with the major trends and dramatists in Twentieth Century Latin-American theater. Taught in English.

V 4903 373
SPANISH AMERICAN POETRY 3.0
 A study of contemporary poetry in Spanish America from modernism to the present, considering the leading currents and figures in the major movements. Taught in English.

V 4903 376
SPANISH-AMERICAN SHORT STORY 3.0
 Trends in the modern short story in Spanish America and its importance as a genre in the literary life of Spanish American. Taught in English.

V 4903 377
THE ITALIAN-AMERICAN NOVEL 3.0
 A presentation of representative works of Italian-American authors dealing with the problems of the Italian immigrant as he/she inserts him/herself into the American mainstream. Didonato's naked as an author, Puzo's Godfather and the Fortunate Pilgrim, and Fante's Dago Red are some of the works to be considered. Taught in English.

V 4903 378
MODERN SPANISH-AMERICAN NOVEL 3.0
 The development of the Spanish-American novel in the 20th Century. Readings and discussion of representative works. Taught in English.

V 4903 379
DANTE 3.0
 A critical study of Dante, considering especially the divine comedy and other selected works in their medieval context. Taught in English.

V 4903 380
ITALIAN HUMANISM AND RENAISSANCE 3.0
 The works of Petrarch, Boccaccio and Machiavelli, and a secondary consideration of works of other authors of the Renaissance. Taught in English.

V 0308 100
THE MANY WORLDS OF LATIN AMERICA: INTERDISCIPLINARY PERSPECTIVES 4.0
 This course is designed to introduce the student to the study of Latin America from an interdisciplinary point of view. It focuses on the physical environment, the creations of people in their environment, their literary culture, their development over the span of time and their social and political conditions. The interdisciplinary approach is used to illustrate the interrelatedness of all aspects of life in Latin America so that it might be seen as a total culture region.

V 0308 300
PRE-FIELD WORK SEMINAR IN LATIN AMERICAN AREA STUDIES 3.0
 This course prepares students for their field experience in either the Hispanic communities of the mainland or in selected regions of Latin America. It is designed to acquaint the students with techniques of planning for different kinds of field work, designing proposals and learning to take into account culture differences. (the faculty represents a variety of disciplines and the teaching is interdisciplinary).

V 0308 400
THE FIELD EXPERIENCE IN LATIN AMERICAN AREA STUDIES 6-12.0
 The field experience permits students participation in the Latin American area studies program to acquire first-hand knowledge of some aspect of life in a Latin American community. The students, after having selected their topics, are responsible for sending reports from the field, developing the techniques they need for working in cooperation with program staff, and demonstrating that they have begun to interpret local reality in a disciplined manner.

V 0308 401

**POST FIELD WORK SEMINAR IN LATIN AMERICAN
AREA STUDIES**

3.0

The post field work seminar enables the students to organize ideas and materials gathered during the field experience in an analytic report. The seminar affords students the opportunity to exchange ideas and information with other members of the group on their specific field experiences as these relate to report preparation.

Speech and Theater

Chairperson: Wayne Bond

For those interested in the theater and its many facets, broadcasting, communications theory and practice, or dance, the department offers a Bachelor of Fine Arts and a Bachelor of Arts degree.

The Bachelor of Fine Arts has two concentrations designed for those seriously considering a theater career: acting-directing and design-technical theater. A successful interview and audition/portfolio examination is required for these concentrations. Auditions are held at least three times a year. The dates can be obtained through the department or the Admissions Office.

The Bachelor of Arts degree has five concentrations: broadcasting, communications theory and practice, dance, theater, and teacher education. Each offers a broad approach and allows time for courses and interests in other fields. In order to major in these areas, a successful audition and/or interview must be completed. An interview is also required to minor in Speech and Theater.

The department offers a special blend of theory and practice available through specialized internships, dance companies, concerts, and the Major Theater Series. Participation in intercollegiate forensics is sponsored by the Student Government Association.

Speech and Theater Major (all BA and BFA concentrations)

REQUIRED COURSES (BASIC CORE)

	Semester Hours
1007 100 Introduction to the Theatrical Medium.....	3

1506 103 Voice and Speech Improvement.....	3
0603 280 Elements of the Public Media*	3
Concentration Requirements — BA.....	23-30
Concentration Requirements — BFA	76-74
Department Electives.....	0-11

*Elements of Public Media not required of the broadcast and dance major.

Concentrations Within the Program (BA)

THEATER

Required Courses

	Semester Hours
1007 122 Acting I.....	3
1007 150 Technical Theatre I.....	3
1007 210 Theatre History: Class-Eliz	3
1007 211 Theatre History: Rest.-Mod.	3
1007 208 Play Script Interpretation	3
1007 330 Play Direction I.....	3
1007 361 Dramatic Literature	3
1007 363 Reader's Theatre.....	3
1007 410 Seminar in Drama: Prod./Theory	3
1007 411 Dramatic Criticism	3
1007 495 Thesis OR 1007 403 Independent Study.....	3

Theatre Practicum:

Practicum in Costuming	1
Practicum in Construction	1
Practicum in Management	1
Practicum in Lighting	1
Practicum (free choice)	2

Collateral Course

Select one 3 sh course from the appropriate list to be obtained from the department3

Electives (theater)

Select 6 sh from the appropriate list to be obtained from the department6

Electives (general)

Select 22-28 sh from the appropriate list to be obtained from the department 22-28

COMMUNICATION THEORY AND PRACTICE

Required Courses

1007 122 Acting I.....	3
1506 234 Fundamentals of Public Speaking	3
1506 438 Seminar in Persuasion and Social Control.....	3
1506 441 Group Discussion and Leadership	3
OR	
1506 442 Argumentation and Debate	3
1506 271 Interpersonal Communication I.....	3
1506 272 Interpersonal Communication II	3
1506 334 Contemporary Public Address	3
1506 374 Group Processes.....	3
1506 375 Nonverbal Communications	3
1506 478 Seminar in Communication Theory	3

BROADCASTING

Required Courses

0603 101 Introduction to the Broadcasting Medium.....	3
---	---

0603 240	Writing for the Media.....	3
0603 251	Radio-Television Production I.....	3
0603 252	Television Production II.....	3
0603 253	Radio Production II.....	3
0603 350	Television Production III.....	3
Select Two		
0603 315	Political Broadcasting.....	3
0603 380	Cultural Impact of Broadcasting.....	3
0603 491	International Broadcasting.....	3
0603 460	Station Management.....	3
(Professional, as offered, courses satisfy this requirement)		

DANCE

Required Courses

1008 141	Modern Dance Techniques — Beginning I.....	2
1008 142	Modern Dance Technique — Beginning II.....	2
1008 241	Modern Dance Technique — Intermediate I.....	2
1008 242	Modern Dance Techniques — Intermediate II.....	2
1008 210	History of Dance.....	2
1008 351	Dance Technique — Ballet I.....	2
1008 352	Dance Technique — Ballet II.....	2
1008 161	Choreography I — Beginning.....	2
1008 480	Dance Production.....	3
Practicum: 3 Dance, 1 Theatre.....		4
Required major elective.....		2

Electives (dance)

Select 9 sh from the appropriate list to be obtained from the department.....9

Electives (general)

Select 45-51 sh from the appropriate list to be obtained from the department..... 45-51

Teacher Certification

Students wishing certification must be admitted to the Teacher Education program and follow the professional sequence outlined there. For admission requirements and professional sequence see the Department of Curriculum and Teaching.

In addition, the Speech and Theater department has these requirements:

	Semester Hours
1506 104 Phonetic Study of Speech Sounds.....	3
1007 122 Acting I.....	3
1007 150 Technical Theater I.....	3
1506 160 Oral Interpretation of Literature.....	3
1007 201, 202, 203 Theater Practicum.....	4
1506 234 Fundamentals of Public Speaking.....	3
1506 302 Speech Improvement Practicum.....	3
1007 330 Play Direction I.....	3
1007 210 Theater History: Classical to Eliz.....	3
1506 441 Group Discussion and Leadership.....	3
1506 407 Methods of Teaching Speech and Theater.....	3

Concentrations Within the Program (BFA)

ACTING-DIRECTING

Required Courses

	Semester Hours
1007 1022 Acting I.....	3
1007 123 Acting II.....	3
1008 141/2 Mod. Dance Tech. Beg. I and II.....	4
1007 150 Technical Theatre I.....	3

1007 208	Play Script Interpretation.....	3
1007 210	Theatre History: Class — Eliz.....	3
1007 211	Theatre History: Rest. — Mod.....	3
1007 222	Acting III.....	3
1007 223	Acting IV (Character).....	3
1007 242	Drawing for Theatre or Theatre Elective.....	3
1007 278	Stage Makeup.....	2
1007 322	Acting V (Styles).....	3
1007 323	Voice for the Performer.....	2
1007 330	Play Direction I.....	3
1007 342	Acting VI (Prof. Prep).....	3
1007 470	History of Costumes.....	3
1007 430	Play Direction II or Acting Elective.....	3
1007 436	Dramatic Workshop II.....	3

OR

1007 480	Seminar Theatrical Concept.....	3
1007 201 202 203	Theatre Practicum.....	(6-8)
1007 490	Internship.....	11

OR

1007 435	Dramatic Workshop I.....	3
1007 403	Independent Study.....	3

Plus 5 s.h. chosen from the following:

1007 365, 366, 367	Stage Technique: Mime, Dance Combat.....	1-3
1007 391	Play Writing.....	3
1007 431	Play Direction III.....	3
1007 433	Shakespeare Workshop.....	3
1007 438	Musical Comedy.....	3

Electives (general)

Select 2-8 sh from the appropriate list to be obtained from the department..... 2-8

DESIGN-TECHNICAL THEATER

Required Courses

	Semester Hours
1007 122 Acting I.....	3
1007 150 Technical Theatre I.....	3
1007 208 Play Script Interpretation	3
1007 210 Theatre History: Class. — Eliz.....	3
1007 211 Theatre History: Rest. — Modern.....	3
1007 234 History of Decor.....	3
1007 242 Drawing for the Theatre	2
1007 245 Drafting for the Theatre	3
1007 250 Technical Theatre II.....	3
1007 278 Stage Makeup.....	2
1007 330 Play Direction I.....	3
1007 340 Theatrical Design.....	3
1007 345 Stage Design	3
1007 346 Stage Design II.....	3
1007 370 Costume Construction.....	3
1007 371 History of Costumes	3
1007 372 Introduction to Costuming	3
1007 381 Thea. Adm. and Aud. Development	3
1007 455 Fundamentals of Stage Lighting.....	3
1007 458 Advanced Lighting	
OR	
1007 475 Adv. Problems in Costume Design.....	3
1007 480 Seminar in Theatre Concept.	3
1007 403 Independent Study	
OR	
1007 490 Internship	6
1007 201/2/3 Theatre Practicum.....	6-8

Electives (departmental)

Select 1-3 sh from the appropriate list to be obtained from the department..... 1-3

Electives (general)

Select 0-6 sh from the appropriate list to be obtained from the department..... 0-6

Minor Programs

Students wishing to pursue a minor in the Speech and Theater Department, and have it listed on their transcript, must proceed as follows:

Submit an application (may be obtained from the department office) to the Chairperson requesting status as a Minor Program Student in the Department. Complete one of the Minor Program sequences. Request the Registrar (during the senior year) to certify on official records your completion of a minor program of study.

Communication Theory and Practice (Minor)

Required Courses

	Semester Hours
0603 280 Elements of Public Media.....	3
1007 100 Introduction to Theatrical Medium	3
1506 103 Voice and Speech Improvement.....	3
1506 234 Public Speaking	3
1506 271 Interpersonal Communication I.....	3
1506 374 Group Processes or	
1506 375 Nonverbal Communication.....	3

Dance (Minor)

Required Courses

1007 100 Introduction to Theatrical Medium	3
1007 201 Theater Practicum.....	1
1008 141 Modern Dance Technique Beg. I	2
1008 142 Modern Dance Technique Beg. II.....	2
1008 161 Choreography I.....	2
1008 210 History of Dance	2
1008 241 Modern Dance Intermediate I.....	2
1008 351 Dance Technique Ballet I	2

Electives (departmental)

Select 2 sh from the appropriate list to be obtained from the department.....2

Speech and Theater (Minor)

Required Courses

	Semester Hours
0603 280 Elements of Public Media.....	3
1007 100 Introduction to Theatrical Medium	3
1007 122 Acting I or	
1007 150 Technical Theater I.	3
1007 201 Theater Practicum.....	1
1506 103 Voice and Speech Improvement.....	3
1506 160 Oral Interp of Literature.....	3
1506 234 Public Speaking	3

Courses of Instruction

I 0603 101
INTRODUCTION TO THE BROADCASTING MEDIUM 3.0
The development, organization and operation of radio and television in modern society; social and cultural influence of commercial and educational broadcasting.

I 0603 105
FUNDAMENTALS OF BROADCASTING 3.0
The structure of the American Broadcasting Industry; broadcast production including making radio and television commercials and disc-jockey-format music programs. For non-broadcast majors only.

I 0603 151
PRINCIPLES OF RADIO AND TELEVISION PRODUCTION 3.0
Non-dramatic broadcast program materials and production with emphasis on producing, directing, performing, and operating equipment for simple program formats.

I 0603 152
INTERMEDIATE RADIO AND TELEVISION PRODUCTION PRINCIPLES 3.0
Broadcast program materials and productions with emphasis on producing, directing, performing, and operating equipment for informational and entertainment program formats. For non-broadcast majors only.
Pre-requisite: I 0603 151.

I 0603 221
RADIO PRACTICUM 1.0
Practice in radio skills acquired in the classroom and in radio operation. This course may be repeated.
Pre-requisites: I 1506 100 OR, I 1506 103, I 0603 251.

I 0603 222
TELEVISION PRACTICUM 1.0
Closed circuit television production. Students participate in a minimum of 7 of the 14 weekly sessions. May be repeated.
Pre-requisites: I 0603 251 OR, I 0603 252 OR, I 0603 350.

I 0603 240
WRITING FOR BROADCAST MEDIA 3.0
Styles and forms involved in non-dramatic program writing for the media; preparation of scripts for sports, news, talk and documentary programs.
Pre-requisite: I 0603 101.

I 0603 251
RADIO AND TELEVISION PRODUCTION I 3.0
The tools and techniques of television production applied to news, commercial, interview and demonstration programs.
Pre-requisite: I 0603 101.

I 0603 252
TELEVISION PRODUCTION II 3.0
Group activity in the preparation and presentation of broadcast materials including plays, speeches, interviews, announcing, news-casting, music programming and advertising; the use of educational school broadcasting.
Pre-requisite: I 0603 251.

I 0603 253
RADIO PRODUCTION II 3.0
The production of radio drama, documentaries and actualities including studio and location recording techniques, editing of audio tape, program organization and techniques of interviewing.
Pre-requisites: I 0603 251.

I 0603 280
ELEMENTS OF THE PUBLIC MEDIA 3.0
 Broadcasting theory concentrating on the four controlling elements: the physical nature of the broadcasting media, historical background, economic constraints and the problems of social control.

I 0603 311
ELECTRONIC JOURNALISM 3.0
 Practical training in gathering, writing, and producing news for radio and television; development of ethical electronic journalistic standards and practices as reflected by major social issues.
Pre-requisites: I 0603 240, I 0603 252.

I 0603 315
POLITICAL TELEVISION AND RADIO 3.0
 An historical-critical introduction to radio and TV as related to political figures, institutions and issues: J. L. Lewis, F. D. R., McCarthy hearings, Nixon-Kennedy debates and political conventions.

I 0603 350
TELEVISION PRODUCTION III 3.0
 Two television productions written, produced and directed; production and direction of remote broadcasts.
Pre-requisites: I 0603 251, I 0603 252.

I 0603 353
CHILDREN'S TELEVISION 3.0
 Current children's productions and examination of research on their affect/effectiveness. Work on class productions designed for children.
Pre-requisites: I 0603 251.

I 0603 380
CULTURAL IMPACT-BROADCASTING 3.0
 The ways in which the broadcast media affect the mass culture and through it the values and mores of society. Includes history of mass culture and the mechanisms by which minority cultures and innovations can affect mass culture.

I 0603 403
INDEPENDENT STUDY 1-3
 Proposals must be submitted for departmental approval prior to registration for the course.

I 0603 440
NEWS PROGRAM PRODUCTION 3.0
 Reporting, electronic newsgathering and editing, producing, directing, crew work, and news writing and editing with focus on production of a weekly color news program.
Pre-requisites: I 0603 0240 and I 0603 0350, and permission of instructor.

I 0603 450
ELECTRONIC FIELD PRODUCTION AND POST-PRODUCTION 3.0
 Methods of electronic field production and post-production, including operation of color E.F.P. equipment and 3/4 inch color video editing equipment, planning and development of shooting script. Production of programs.
Pre-requisites: I 0603 350 and Permission of instructor.

I 0603 460
STATION MANAGEMENT 3.0
 Economic support patterns; evolution of broadcast programming; determining community needs; on-air operations; station promotion and advertising; legal and ethical questions relating to broadcasting.
Pre-requisites: I 0603 251, I 0603 252.

I 0603 465
RADIO-TELEVISION ARTS ACTIVITY 1-3
 Credit is awarded for some supervisory radio and television arts activity like writing broadcasting scripts, directing and/or producing a series of radio or television programs, etc. Enrollment only by permission of the department chairman.

I 0603 470
SPECIAL STUDIES IN BROADCASTING 3.0
 The theory and actual current practice in the business, managerial and/or legal aspects of the broadcasting industry as provided by practicing professionals in the field. This course may be repeated for credit.
Pre-requisites: I 0603 252 Instructor's permission, Majors Only.

I 0603 490
INTERNSHIP IN BROADCASTING 0.0
 Upper-class undergraduate students may pursue a major portion of a semester's work under the supervision of an experienced professional practitioner as an assistant in an active, successful theater, dance, speech or media center or program. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration. Credit by arrangement.
Pre-requisite: Instructor's permission.

I 0603 491
INTERNATIONAL BROADCASTING 3.0
 Major broadcasting systems including those of England, Canada, Japan, Russia, Germany, France and Italy. Voice of America, Radio Free Europe, Missionary Radio, group listening and viewing systems.
Pre-requisites: I 0603 101.

I 1007 100
INTRODUCTION THEATRICAL MEDIUM 3.0
 All forms of theatrical literature and productions including drama, ballet, mime, opera, circus, musical comedy and mass media.

I 1007 120
MOVEMENT FOR THE THEATER 2.0
 Uninhibited movement for the actor and others in music, dance and mime; exploring and developing functional and expressive movement.

I 1007 122
ACTING I 3.0
 Basic techniques of theatrical communication involving one's self completely; doing and experiencing inwardly; deepening the personal involvement and significance of actions; improvisation and exercises for perception, self-awareness and justification.

I 1007 123
ACTING II 3.0
 Extension of the actor's self into characterization; learning to physicalize (or externalize) the psychological elements and characters so that they are projected to an audience. Script analysis, in which the student develops the discipline of using clues in the script to fulfill the author's intentions. Work on scenes, applying the foregoing techniques.
Pre-requisites: I 1007 122.

I 1007 150
TECHNICAL THEATER I 3.0
 The production concept from the designer's approach through a correlation of related arts to the final production; emphasis on correlation of scenic and lighting designs.

I 1007 201
THEATER PRACTICUM I 1.0
 On or off stage experience in departmental productions. May be repeated.

- I 1007 202
THEATER PRACTICUM II 1.0
Continuation of 1007 201. May be repeated.
- I 1007 203
THEATER PRACTICUM III 1.0
Continuation of 1007 202. May be repeated.
- I 1007 204
THEATER PRACTICUM IV 1.0
Continuation of 1007 203. May be repeated.
- I 1007 208
PLAY SCRIPT INTERPRETATION 3.0
An evaluation of the playscript in terms of the literary, technical, and production elements essential to mounting the script for performance; a consideration of both the fictional and the functional elements of playscripts.
- I 1007 210
THEATER HISTORY: CLASSICAL TO ELIZABETHAN 3.0
The development of the theater from the classical Greek through the Elizabethan period; attention to plays, playwrights, theater architecture, scenery, costuming, styles of acting and presentations. Oral reports, lectures and demonstrations.
- I 1007 211
THEATER HISTORY: RESTORATION TO MODERN 3.0
The development of the theater from the restoration through the modern period; attention to plays, playwrights, theater architecture, scenery, costuming, styles of acting and presentations of the period. Oral reports, lectures and demonstrations.
- I 1007 222
ACTING III 3.0
Strengthening the actor's controls and extending his boundaries. More challenging roles; period plays and the problem of style.
Pre-requisites: I 1007 123 or Instructor's permission.
- I 1007 223
ACTING IV (CHARACTER) 3.0
Extending the range of characterization by modifying and controlling physical and vocal characteristics, and by studying how clothing, manners and modes of other periods affect behavior. Exercises in animal and object controls and in using adjustments; application in scenes.
Pre-requisites: I 1007 222.
- I 1007 234
HISTORY OF DECOR 3.0
The major architectural and decorative periods of the world and their influences and role in the theater as applied to the designer.
- I 1007 242
DRAWING AND RENDERING TECHNIQUES FOR THEATER 2.0
Drafting techniques for theatrical designs: basic projective techniques, color harmony and perspective. Preparation for Technical Theater II or theatrical design for students without prior experience.
- I 1007 245
DRAFTING FOR THE THEATRE 3.0
Techniques in theatrical drafting that explore the mechanics of drafting through the solution of practical problems in floor planning, front and rear elevations; the use of different building techniques, materials and structures.
Pre-requisites: I 1007 150.
- I 1007 250
TECHNICAL THEATER II 3.0
The methods of realizing theatrical design including construction, scene painting and the use of theatrical and plant lighting.
Pre-requisite: I 1007 150 or Instructor's permission.
- I 1007 278
STAGE MAKEUP 2.0
Makeup materials and their uses; creating corrective and character makeup, mustaches and beards for a cast. Research or creative experience to compile a practical resource file.
- I 1007 300
AMERICAN THEATRE HISTORY: PIONEER TO PRESENT 3.0
The historical development of the American theatre in terms of production and stage history from the landing of the Hallum Troupe Inc., 1752 to the present.
- I 1007 320
DANCE FOR THE THEATER 2.0
Basic skills in various theater forms; choreographic techniques applied to selected theatrical problems; dance in musical comedy, entr'acte, processions, fight scenes, period plays and dream sequences.
- I 1007 322
ACTING V (STYLES) 3.0
Emphasis upon movement, decorum, costuming, and the theatrical environment of each major period of theater history. Scene study for each period of theater history. Special lectures by costuming and movement specialists.
Pre-requisites: I 1007 223.
- I 1007 323
VOICE FOR THE PERFORMER 2.0
The voice skills necessary for the actor. Intensive work directed toward classic and modern styles in stage diction.
Pre-requisites: I 1007 122, I 1506 103.
- I 1007 324
THE PROFESSION OF ACTING (ACTING VI) 3.0
Consideration of the artistic and commercial demands of the professional theatre and preparation to meet those demands.
Pre-req: Junior or senior theater major.
- I 1007 330
PLAY DIRECTION I 3.0
Principles of direction, selection and casting; exercises in composition and movement; scenes directed for class criticism; preparation of prompt book.
Pre-requisites: I 1007 122, I 1007 150.
- I 1007 340
THEATRICAL DESIGN 3.0
Visual design in the theatrical medium; execution of actual designs stressing originality within given stylistic concepts.
Pre-requisites: I 1007 150 or Instructor's permission.
- I 1007 345
STAGE DESIGN 3.0
Stage design for the theater. Students design scenery for realistic and non-realistic drama styles receiving experience in various styles of rendering, model making, artistic and technical principles of design.
Pre-requisites: I 1007 340, I 1007 242.
- I 1007 352
SCENE PAINTING 2.0
The theory and practice of the central techniques of the scenic artist and the methods and materials used in his discipline.
Pre-requisites: I 1007 150, I 1007 242.

I 1007 357
OPERA WORKSHOP 2.0
 The literature and performance problems of opera approached through rehearsal and production of representative excerpts in English. Stage movement, diction and stylistic modes of presentation. An interdepartmental offering open to all students held concurrently with H 1004-034, 035. Non-singers must obtain approval from the instructor. Singers and pianists must audition for roles. Juniors only.

I 1007 360
CREATIVE DRAMATICS 2.0
 Principles and techniques of creative dramatics as applied in classroom, theater and speech therapy programs paralleling the mental, physical and emotional levels of children. Student participation in planning and presenting demonstrations with children.

I 1007 361
DRAMATIC LITERATURE 3.0
 Dramatic literature from the classical to the modern in terms of genre, theme, and performance potential; dramatic literature as it reflects its time.

I 1007 365
STAGE TECHNIQUE AND DANCE 1.0
 Dance encountered in period plays including the Galliard, Pavané, Minuet and other Elizabethan, Jacobean, Georgian and 19th century dances (generally offered as one of three modules with 1007-366 and 367).
Pre-requisite: I 1007 222.

I 1007 366
STAGE TECHNIQUE COMBAT 1.0
 Stage use of sword-play, hand-to-hand combat and combat choreography with broadsword, epee, cudgel and staff among others (generally offered as one of three modules with I 1007 365 and 367).
Pre-requisites: I 1007 222.

I 1007 367
STAGE TECHNIQUE: MIME 1.0
 Fundamentals of the art of classic mime including basic body controls and movements (generally offered as one of three modules with I 1007 365 and 366).
Pre-requisites: I 1007 222.

I 1007 370
COSTUME CONSTRUCTION 3.0
 Constructing costumes and accessories for the stage; techniques of cutting and sewing clothing; selection of fabrics in terms of weight, texture, color and drape. Lecture and workshop.

I 1007 371
HISTORY OF COSTUMES 3.0
 The evolution of costume and the development of tailoring; social, economic and political influences on silhouette and ornamentation. For advanced students of costume design and construction.
Pre-requisites: I 1007 372.

I 1007 372
INTRODUCTION TO COSTUMING FOR THE STAGE 3.0
 Physical and aesthetic requirements of the actor, director and designer; the history of clothing and the application to stage costumes. Construction projects, lecture and discussion.

I 1007 381
THEATER ADMINISTRATION AND AUDIENCE DEVELOPMENT 3.0
 Initiation, development and continuing operation of the theatrical enterprise including methods of finance, budget and contract and methods of audience research and development.
Pre-requisites: I 1007 100, I 1007 122, I 1007 150.

I 1007 391
PLAYWRITING 3.0
 The creation of an original script suitable for production. The cause to effect play will be investigated as well as newer trends in theater. Investigation of marketing possibilities and the preparation of scripts for submission. Students should have a background in the technique and artistic aspects of the theater.

I 1007 403
INDEPENDENT STUDY 1-3.0
 Proposals must be submitted for departmental approval prior to registration for the course.

I 1007 407
SUMMER THEATER PRODUCTION: TECHNICAL 1-7.0
 Practical experience as a member of a professional, semi-professional or educational theater on or off campus; work as a technician or as an assistant to the designer or producer.
Pre-requisite: Departmental Approval.

I 1007 405
THEATRICAL EXPERIENCE: THE INFORMED AUDIENCE 3.0
 Attendance at a series of live performances on and/or off campus after preliminary investigation and discussion with the group leader; follow-up in-person sessions with the play's production team permits an examination of the several talents, methods and contributions of the playwright, director, designer, actor, technician and producer. Designed for both the casual theater-goer and the theater major.

I 1007 409
SUMMER THEATER PRODUCTION: ACTING 1-7.0
 Practical experience as a member of a professional, semi-professional, or educational theater on or off campus. The student works as an actor, or as an assistant to the director, designer or producer.
Pre-requisite: by department approval.

I 1007 410
SEMINAR IN DRAMA 3.0
 Dramatic theory as it relates to production and performance. A series of research projects selected by the instructor to guide students in applying contemporary principles of play production to styles of performance; comprehensive and intensive study of playscripts and dramatic theories as they find expression in performance.
Pre-requisite: I 1007 361.

I 1007 411
DRAMATIC CRITICISM 3.0
 Dramatic principles of theme, content, and characterization as they relate to production and performance; evaluation and analysis of the basic ingredients of dramatic criticism as related to the critic, the director, the scenic artist and the performer.
Pre-requisite: I 1007 361.

I 1007 430
PLAY DIRECTION II 3.0
 Advanced play direction with emphasis on the director's analysis of the script and working with performers. Each participant will direct a variety of scenes and a one act play.
Pre-requisites: I 1007 123, I 1007 330.

I 1007 431
PLAY DIRECTION III 3.0
 Exploration of significant styles of production. Each participant will direct scenes in various period styles. A final stylistic project performed for an audience.
Pre-requisites: I 1007 222, I 1107 430.

- I 1007 433
SHAKESPEARE WORKSHOP 3.0
 Analysis and performance of scenes from Shakespearean histories, comedies, and tragedies.
Pre-requisites: I 1007 223, I 1007 330.
- I 1007 435
DRAMATIC WORKSHOP 3.0
 An advanced course combining students as actors or directors engaged in research and performance of classical and contemporary styles of theater in a works-in-progress atmosphere. Material will be drawn from the full spectrum of theater.
Pre-requisite: Two courses in directing and/or acting.
- I 1007 436
DRAMATIC WORKSHOP II 3.0
 A continuation of dramatic workshop providing advanced research, exploration and performance for acting-directing experimentation with various modes such as readers' theater, story theater and environmental theater. Problems of adaptation of plays of one period into other periods and of non-theatrical material into a theatrical form.
Pre-requisite: I 1007 435.
- I 1007 438
PRODUCING THE MUSICAL COMEDY 3.0
 Production styles, techniques and dramatic conventions used in the musical theater in relation to direction, music, dance, and design. The student will be expected to study all areas of the musical.
Pre-requisites: I 1007 150, I 1007 330.
- I 1007 445
ADVANCED STAGE DESIGN 3.0
 Advanced scene design skills with particular attention to design in non-proscenium production.
Pre-requisites: I 1007 150, I 1007 242.
- I 1007 455
FUNDAMENTALS OF STAGE LIGHTING 3.0
 The functions of light on stage; the use of lighting equipment. Laboratory work done in the Memorial Auditorium.
- I 1007 457
OPERA WORKSHOP 2.0
 The literature and performance problems of opera approached through rehearsal and production of representative excerpts in English; stage movement, diction and stylistic modes of presentation. An interdepartmental offering open to all students held concurrently with H 1004 034, 035. Non-singers must obtain approval from the instructor. Singers and pianists must audition for roles. Seniors only.
- I 1007 458
ADVANCED LIGHTING 3.0
 Advanced lighting skills in theatre and the related areas of dance, opera and the musical comedy.
Pre-requisites: I 1007 345, I 1007 455.
- I 1007 460
ADVANCED CREATIVE DRAMATICS: THE ARTS IN TEACHING 3.0
 Arousing and directing creative abilities in students; assisting other teachers in applying dramatics, music, art and dance in presentation of various subjects.
Pre-requisites: I 1007 360.
- I 1007 475
ADVANCED PROBLEMS IN COSTUME DESIGN 3.0
 Costume design for theater, opera, dance and film. Students design costumes for each medium with emphasis on the various styles and problems.
Pre-requisites: I 1007 370, I 1007 371.
- I 1007 478
STAGE MAKEUP SEMINAR 3.0
 A demonstration laboratory in planning and executing corrective middle-age, old age, stylized and other creations; three-dimensional makeup with crepe hair, latex, putty and dermawax; make-up crew supervision.
Pre-requisites: I 1007 278 or instructor's permission.
- I 1007 480
SEMINAR IN THEATRICAL CONCEPTUALIZATION 3.0
 Active reinforcement of the concept of communal effort and thought in the theater through the creation of student awareness of current artistic and/or philosophical conflicts within the discipline. Limited to B.F.A. candidates in their senior year.
- I 1007 490
INTERNSHIP IN THEATER 4-16.0
 Upper-class undergraduate students may pursue a major portion of a semester's work under the supervision of an experienced professional practitioner as an assistant in an active, successful theater, dance, speech program or media center. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration. Credit by arrangement.
- I 1007 495
THESIS (SENIOR) 3.0
 Senior project in an area of student's primary field of specialization. Theatre history, dramatic literature, criticism or performance theory. Requires intensive research project demonstrating the student's ability to apply the theories and principles revealed by his project to performance or production.
Pre-requisites: Senior standing and instructor's permission.
- I 1008 100
MAN: HIS BODY AND ITS EXPRESSION 2.0
 The physical body; mind-body relationship; the meaning of body structure and movement in relationship to non-verbal communication.
- I 1008 101
MOVEMENT AND RHYTHM 1.0
 Develops capacity for natural, coordinated movement. The student discovers basic locomotor and axial movements.
- I 1008 110
MOVEMENT ANALYSIS 3.0
 Basic body mechanics and dance movements; emphasis on freeing the body from unnecessary tension, and on muscle awareness, postural alignment, and relaxation.
- I 1008 141
MODERN DANCE TECHNIQUE BEGINNING I 2.0
 Introduction to modern dance. Techniques and composition; developmental exercises; the relationship to movement and sound and space patterns.
- I 1008 142
MODERN DANCE TECHNIQUE BEGINNING II 2.0
 Continuation of I 1008 141.
Pre-requisite: I 1008 141.

I 1008 143
MODERN DANCE TECHNIQUE BEGINNING I
(EXTENDED) 2.0

Designed for the student who has completed I 1008 141 but needs more skill development before proceeding to I 1008 142.

Pre-requisites: I 1008 141 Instructor's permission.

I 1008 144
MODERN DANCE TECH. BEGINNING II (EXTENDED) 2.0

Designed for the student who has completed I 1008 142 but needs more skill development before proceeding to I 1008 241.

Pre-requisites I 1008 142; instructor's permission.

I 1008 161
CHOREOGRAPHY BEGINNING 2.0

Dance choreography in the traditional idiom with emphasis on the elements of dance composition.

I 1008 201
ADVANCED MOVEMENT AND RHYTHM 1.0

Intense study of the rhythmic structure of movement given with the use of percussion instruments.

I 1008 205
RHYTHMIC ANALYSIS FOR DANCE 2.0

All basic rhythmic structures (basic note values, meter, etc.) covered and immediately applied to movement; games, notational assignments, and choreographic studies used to create understanding of the inherent rhythm within all basic dance movement.

Pre-requisites: I 1008 141 Majors Only.

I 1008 210
HISTORY OF DANCE 2.0

Dance as it has developed from primitive religious and ritualistic movement to its contemporary place in society.

I 1008 211
DANCE MUSIC: A HISTORICAL SURVEY 2.0

The development and application of dance music from circa 1000 AD to the present.

I 1008 230
CREATIVE DANCE FOR CHILDREN 2.0

Teaching materials, movement exercises and games; simple folk and singing games and percussion activities for teaching creative movement and rhythmic activities to children.

Pre-requisites: I 1008 142, I 1008 161.

I 1008 233
DANCE AND SCULPTURE 3.0

The concepts of space, form and energy in relation to sculpture and dance; the cultural conditioning of attitudes about space, form and use of energy.

I 1008 240
MODERN DANCE 1.0

An introduction to the techniques and composition of modern dance; developmental exercises, the relationship of movement and sound patterns, group improvisation as a means of approaching dance composition.

I 1008 241
MODERN DANCE TECHNIQUE-INTERMEDIATE I 2.0

A wide range of movement techniques and dance form styles. Style and personality. Group improvisations as approaches to dance composition.

Pre-requisites: I 1008 142.

I 1008 242
MODERN DANCE TECHNIQUE INTERMEDIATE II 2.0

Continuation of I 1008 241.

Pre-requisites: I 1008 241.

I 1008 243
MODERN DANCE TECHNIQUE INTERMEDIATE I
(EXTENDED) 2.0

Designed for the student who have completed I 1008 241 but needs more skill development before proceeding to I 1008 242.

Pre-requisites: I 1008 241; instructor's permission.

I 1008 244
MODERN DANCE TECHNIQUE INTERMEDIATE II
(EXTENDED) 2.0

Designed for the student who has completed I 1008 242 but needs more skill development before proceeding to I 1008 441.

Pre-requisites: I 1008 242; instructor's permission.

I 1008 253
DANCE TECHNIQUE JAZZ I 2.0

An introduction to jazz technique; emphasis on style and the rhythmic aspects of jazz as a performing art.

Pre-requisite: 2 semester hours of modern dance.

I 1008 254
DANCE TECHNIQUE JAZZ II 2.0

A continuation of I 1008 253.

Pre-requisites: I 1008 253.

I 1008 255
JAZZ I (EXTENDED) 2.0

Designed for the student who has completed I 1008 253 but needs more skill development before proceeding to I 1008 254.

Pre-requisite: I 1008 253; instructor's permission.

I 1008 256
JAZZ II (EXTENDED) 2.0

Designed for the student who has completed I 1008 254 but needs more skill development before proceeding to more advanced work.

Pre-requisites: I 1008 254; instructor's permission.

I 1008 261
DANCE CHOREOGRAPHY II 2.0

Dance choreography with emphasis on small group works and solos.

Pre-requisites: I 1008 161.

I 1008 265
DANCE IMPROVISATION 2.0

Basic skills and problems in dance improvisation. No previous improvisational experience necessary. May be taken by a dancer at any technical level, but must be taken in conjunction with a modern dance course.

I 1008 266
DANCE IMPROVISATION II 2.0

A continuation of I 1008 265.

Pre-requisites: I 1008 265; and concurrent enrollment in a techniques course.

I 1008 280
DANCE PRACTICUM 1.0

Practical work in dance production. Dancing, assisting, directing, accompanying, working on technical or house crew. Credit only for working through the entire production period. Work must be completed and report filed prior to registration in the course. May be taken more than once.

Pre-requisite: Instructor's permission.

- I 1008 325
METHOD-MATERIALS-TEACH DANCE 2.0
Theory, methods and materials for the teaching of dance and movement, pre-school through high school; lesson planning, unit planning and curriculum development.
Pre-requisites: I 1008 242, I 1008 161.
- I 1008 333
DANCE AND THE CITY 3.0
How experiences in the city affect attitudes, body structure, ability to move; community movement patterns as seen in ceremonies, rituals parades, festivals, folk dancing, and the like. Some attention will be given to the present and future needs of our cities for shared movement experiences.
- I 1008 345
DANCE TECHNIQUE: ETHNIC 2.0
The distinctive techniques customarily related to specific racial and cultural groups. The groups studied will vary from semester to semester. May be taken more than once.
- I 1008 351
DANCE TECHNIQUE BALLET I 2.0
An introduction to ballet technique.
Pre-requisite: 4 s.h. of modern dance or instructor's permission.
- I 1008 352
DANCE TECHNIQUE BALLET II 2.0
A continuation of I 1008 351.
Pre-requisites I 1008 351; instructor's permission.
- I 1008 353
DANCE TECHNIQUE BALLET III 2.0
Advanced technique forms with presentations by authorities from various ballet schools.
Pre-requisites: I 1008 352; instructor's permission.
- I 1008 354
BALLET I (EXTENDED) 2.0
Designed for the student who has completed I 1008 351 but needs more skill development before proceeding to I 1008 352.
Pre-requisites: I 1008 351; instructor's permission.
- I 1008 355
BALLET II (EXTENDED) 2.0
Designed for the student who has completed I 1008 352 but needs more skill development before proceeding to I 1008 353.
Pre-requisites: I 1008 352; instructor's permission.
- I 1008 403
INDEPENDENT STUDY 1-3.0
Proposals must be submitted for departmental approval prior to registration for the course.
- I 1008 441
MODERN DANCE TECHNIQUE ADVANCED I 2.0
Advanced dance forms with presentations by authorities from the Graham and Nikolais schools among others.
Pre-requisite: 6 s.h. of modern dance. By audition only.
- I 1008 442
MODERN DANCE TECHNIQUE ADVANCED II 2.0
A continuation of I 1008 441. By auditions only.
- I 1008 443
MODERN DANCE TECHNIQUE ADVANCED I (EXTENDED) 2.0
Designed for the student who has completed I 1008 441 but needs more skill development before proceeding to I 1008 442.
Pre-requisites: I 1008 441; instructor's permission.
- I 1008 473
DANCE THERAPY 2.0
Dance as therapy; reaching the emotionally disturbed or tense child on a non-verbal level; relaxation through dance experiences.
Pre-requisite: Instructor's permission.
- I 1008 480
DANCE PRODUCTION 2-3.0
Responsibilities of the dancer, choreographer, artistic director, musician and technician in dance production. Practical group experience.
Pre-requisites: I 1008 161 Crs. in Similar Field.
- I 1008 485
DANCE REPERTORY 3-7.0
Dancing, choreographing, or providing technical assistance for a repertory company. Normally involves a touring company both within and outside the state for an extended period of time. More than one semester of work may be involved. By audition only.
- I 1008 490
INTERNSHIP IN DANCE 4-16
Upper class undergraduate students may pursue a major portion of a semester's work under the supervision of an experienced professional practitioner as an assistant in active, successful dance activity. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration.
- I 1008 403
INDEPENDENT STUDY 1-3.0
Proposals must be submitted for departmental approval prior to registration for the course.
- I 1099 450
INTRODUCTION TO PERFORMING ARTS MANAGEMENT I 3.0
Structures of performing arts organizations in the U.S.
Pre-requisites: 9 s.h. in arts appreciation or applied work; demonstrated interest in the arts. instructor or department permission
- I 1099 451
INTRODUCTION TO PERFORMING ARTS MANAGEMENT II 3.0
Problems and theories of arts management for performing groups in the U.S.; marketing, production, fund-raising and other aspects of operation.
Pre-requisites: Intro. to Performing Arts Management I or permission of instructor.
- I 1099 460
INTERNSHIP IN PERFORMING ARTS MANAGEMENT I 4.0
Field work, 2 days per week (or the equivalent) in a professional situation. On-the-job training in day-to-day operations of a performing arts organization. Students will participate in all facets of production, observe decision-making activities. Registrants must drive and provide own transportation.
Pre-requisites: Intro. to Perf. Arts Management I, II, permission of sponsor, permission of dept. chairperson, 1 sem. of psychology.
- I 1099 461
INTERNSHIP IN PERFORMING ARTS MANAGEMENT II 4.0
Continuation of internship in Performing Arts Management I 2 days per week or equivalent in field work with an arts organization devoted to performance. Registrants must drive and provide own transportation.
Pre-requisites: Internship I, Permission of sponsor, permission of department.

I 1099 462
**INTERNSHIP IN PERFORMING ARTS
 MANAGEMENT III** 1.0
 Full semester's internship in performing arts organization with time allocation mutually decided by the sponsor and the student's major department. Interns must be able to drive and to provide own transportation.
Pre-requisites: Internship in Perf. Arts Management I, II, permission of sponsor, permission of major department.

I 1099 470
**EXTERNSHIP IN PERFORMING ARTS
 MANAGEMENT** 1-15.0
 Management of an arts organization arranged in cooperation with the major department and umbrella organizations. Credit to be arranged.
Pre-requisites: Intro. to Perf. Arts Management I, II, two semesters of internship, permission of sponsor(s) and major department.

I 1506 100
**FUNDAMENTALS OF SPEECH: TEACHER
 CERTIFICATION** 3.0
 Practical opportunities in a variety of speaking situations with special emphasis on teaching oriented activities; emphasis on organizing and clarifying ideas, critical listening skills, development of poise and confidence and effect in communication. Speech lab help as needed. Designed for students enrolled in a teacher certification program.

I 1506 101
**FUNDAMENTALS OF SPEECH: COMMUNICATIONS
 REQUIREMENT** 3.0
 Practical opportunities in a variety of speaking situations. Emphasis on skills, development of poise and confidence and effective communication. Distracting elements in voice or articulation considered, with additional work as needed in the Speech Lab. Designed for students not enrolled in a teacher certification program. Satisfies the communication requirement.

I 1506 102
BASIC SPEECH SKILLS 3.0
 Basic skills training in the effective oral communication of ideas and feelings. Developmental skills stressed. Speech Lab provided as needed. Satisfies the communication requirement. Admission by departmental approval only.

I 1506 103
VOICE AND SPEECH IMPROVEMENT 3.0
 Development of voice and speech techniques and elimination of faults; procedures for improving voice and speech patterns. For speech and theater majors and minors, others by consent of the instructor.

I 1506 104
PHONETIC STUDY OF SPEECH SOUND 3.0
 The manner and place of articulation heard in American English; use of international phonetic alphabet to transcribe speech both prescriptively and descriptively from live and recorded voices; intonation and stress patterns of spoken English.

I 1506 105
**VOICE AND SPEECH IMPROVEMENT FOR STUDENTS
 WITH FOREIGN SPEECH PATTERNS I** 3.0
 Voice and speech problems; comparative phonetic analysis of other languages, noting intonation and inflectional differences; evaluation of progressive speaking and reading skills. For students requiring intensive training in English as a second language.

I 1506 106
**VOICE AND SPEECH IMPROVEMENT FOR STUDENTS
 WITH FOREIGN PATTERNS II** 3.0
 A continuation of I 1506 106.
Pre-requisites: I 1506 105.

I 1506 160
ORAL INTERPRETATION OF LITERATURE 3.0
 Classroom performances of oral interpretation of various forms of literature followed by informal critiques and the development of a repertory.

I 1506 233
ORAL INTERPRETATION OF POETRY 3.0
 Performance styles of interpretation of poetry as they are related to theatre; a survey of selected types of poetry (epic, sonnet, lyric for example) and the accompanying performance style (reader's theatre, improvisation, mime, dance for example) necessary to recreate the selected author, tone and mood.
Pre-requisites: I 1506 160 Majors Only.

I 1506 234
FUNDAMENTALS OF PUBLIC SPEAKING 3.0
 Preparing and delivery of effective, informative, persuasive and entertaining speeches; addressing the class; entering into formal critiques and moderating one program.

I 1506 235
ORAL INTERPRETATION OF DRAMA 3.0
 Performance of selected playscripts employing the techniques of the oral interpreter and the actor; analysis of playscripts and scene study as applied to developing character and movement.
Pre-requisite: I 1506 160 or instructor's permission.

I 1506 236
SPEECH COMMUNICATION FOR BUSINESS 3.0
 Particular oral communication needs of the business student utilizing situations and topics useful in the business world. Areas covered include interviewing, listening, small group discussion, public speaking, and interpersonal skills development.
Pre-requisites: Fundamentals of Speech I 1506 100 or 101.

I 1506 271
INTERPERSONAL COMMUNICATION I 3.0
 Basic theory or interpersonal communication and its practical applications in one-to-one and small group communication situations; personal communication patterns as they affect self-perception and the perception of others.

I 1506 272
INTERPERSONAL COMMUNICATION II 3.0
 Current literature in the field of interpersonal communication and the relationship of the theory to communication experiences both in and out of class.
Pre-requisites: I 1506 271.

I 1506 302
PRACTICUM IN SPEECH IMPROVEMENT 3.0
 Evaluation, etiology and remedial techniques for minor voice and diction problems common to a general school population; self motivating materials for junior high and high school. For all Speech and Theater majors planning to teach. Three class hours, one hour for observation and practice.
Pre-requisites: I 1506 103, I 1056 104, I 1056 160, I 1506 234.

I 1506 331
PUBLIC SPEAKING: RHETORICAL APPROACH 3.0
 Modern speech practice approached through classical rhetorical theory, primary sources and definitive contemporary works; analytical study of representative speeches. Some opportunity to apply theory.

I 1506 334

CONTEMPORARY PUBLIC ADDRESS 3.0

Contemporary styles of speaking relating to current issues and events; primary focus on television, radio styles of announcing; work to develop flexibility in using the various styles.

I 1506 360

ADVANCED ORAL INTERPRETATION OF LITERATURE 3.0

Performance of selected styles, genres and periods of literature; specialized skills of oral interpretation.

Pre-requisites: I 1506 160.

I 1506 363

READER'S THEATER 3.0

The close union of interpretation of literature and theater; adaptation and editing of the various genres of literature; participation in public performances of reader's theater.

Pre-requisites: I 1506 160, I 1007 122.

I 1506 364

ADVANCED READER'S THEATRE 3.0

Principles of reader's theatre for public performance; intensive application of performance technique related to the interpretation of prose, poetry and the novel.

Pre-requisite: I 1506 363.

I 1506 374

GROUP PROCESSES 3.0

The affective domain of a group's function; variables like cohesiveness, blocking behavior, withdrawal, etc., as related to the development and maintenance of productive interaction.

Pre-requisites: I 1506 271.

I 1506 375

NON-VERBAL COMMUNICATION 3.0

Non-linguistic system and the communication experience. Effects of non-verbal aspects (physical behavior, spatial relationships, context, environment, etc.) upon the sending and receiving of verbal messages.

Pre-requisites: I 1007 122, I 1506 374.

I 1506 402

ADVANCED SPEECH PRACTICUM 2.0

More intensive, supervised practice in the improvement of voice and speech patterns in the college speech laboratory and with foreign student practice groups. Two hours of lab and one hour of seminar each week.

Pre-requisites: I 1506 302 and instructor's permission.

I 1506 403

INDEPENDENT STUDY 1-3.0

The proposals must be submitted for departmental approval prior to registration for the course.

I 1506 407

METHODS OF TEACHING SPEECH AND THEATER 3.0

Speech education at each grade level; approaches, problems, materials, textbooks and techniques; trends in instruction; integration of speech with other fields.

Pre-requisites: Instructor's permission, Majors only.

I 1506 414

HISTORY OF BRITISH PUBLIC ADDRESS 3.0

From the Cromwellian period to World War II: The times, issues and speakers.

I 1506 415

HISTORY OF AMERICAN PUBLIC ADDRESS 3.0

Leading speakers from colonial times to the present. Emphasizing the speaker's role in the course of American history.

I 1506 435

SPEECH ARTS ACTIVITY 1-3.0

Credit is given for supervised speech arts activity. Consent of department chairman required. Credit by arrangement.

I 1506 438

SEMINAR IN PERSUASION AND SOCIAL CONTROL 3.0

Uses and applications of persuasion in various fields of social activity; mass media in education, business, religion and politics.

Pre-requisite: I 1506 234.

I 1506 441

GROUP DISCUSSION AND LEADERSHIP 3.0

Principles of small group discussion with a task-problem solving orientation. Leading and participating in private and public discussions; introduction to parliamentary procedure.

I 1506 442

ARGUMENTATION AND DEBATE 3.0

Principles of argumentation; characteristics of propositions, definitions of terms, logical organization, evidence, research and oral techniques, structure of tournament debating. Practice in argumentation and debate of current significant issues.

I 1506 461

CHORAL SPEAKING 2.0

Interpreting literature through a speaking choir; materials suitable for group reading; the application of this form at various grade levels; preparation of selections suited to the student's interest.

I 1506 478

SEMINAR-COMMUNICATION THEORY 3.0

A synthesis of communication theory design to present a unified perspective of the discipline.

Pre-requisite: Senior communication theory students only; instructor's permission.

I 1506 490

INTERNSHIP IN SPEECH COMMUNICATIONS 4-16

Upper-class undergraduate students may pursue a major portion of a semester's work under the supervision of an experienced professional practitioner as an assistant in active, successful speech activity. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration.



Special Programs

Afro-American Studies Minor (18 sh)

The undergraduate minor in Afro-American Studies is an interdisciplinary academic program designed to be complementary to any of the undergraduate majors of M.S.C. The Afro-American and African syntheses within the context of African, American and European culture are presented with their transcultural, inter-ethnic and intellectual traditions — providing an appreciation of the heritage, arts, sciences and values of non-European and non-Euro-American groups. The Afro-American Studies program will also provide for Black students a greater knowledge of self, self-respect and self-esteem. Afro-American Studies for other students will build knowledge and awareness of Afro-American History, Afro-American Culture and Afro-American People.

Required Courses

Semester Hours	
M 4903 399	Development of Black Thought3
P 2205 217	History of Black Americans3
or	
K 4903 381	Africa in Classical Antiquity3

Electives

Select 12 sh from the appropriate interdepartmental list to be obtained from the coordinator of Afro-American Studies

Archaeology Minor (18 sh)

Required Courses

Semester Hours	
2202 306	Introduction to Prehistoric Archaeology.....3
4903 181	Classical Archaeology3

Electives

Select 12 sh from the appropriate interdepartmental list to be obtained from the coordinator of the minor in the Anthropology department.....12

Cooperative Education

MSC's Cooperative Education Program is a professional development program which offers undergraduate students an opportunity to earn academic credit plus a salary for supervised full or part time employment related to their major and/or career goal. Enrollees are guided by a faculty advisor and job assignments, arranged by the co-op staff, give students a chance to explore their anticipated careers through actual work experience.

Enrollment in co-op is either for free electives through the **Career Development** co-op course sequence or through the **Departmental** co-op programs for a combination of major and free electives. Students enroll for any combination of credits up to a maximum of 16.

Career Development Program

Cooperative Education—Experience I = 9 4950 0301 3-8 credits, variable

Cooperative Education—Experience II = 9 4950 0401 3-8 credits, variable

Department Co-op Programs

M 1507 0301	English.....	8
T 2001 0391	Psychology.....	9
U 2208 0390	Sociology.....	8
7 0991 0405	Industrial Studies.....	8
9 2103 0381	Recreation.....	8
Y 0701 0490	Math & Computer Science.....	8
D 0504 0460	Finance.....	3-8
D 0503 0460	Quantitative Methods.....	3-8

General Humanities

Humanistic studies are concerned with the critical and expressive awareness of the meaning of human experience, and the many ways in which mankind has seen itself in the past and sees itself today. Among social, scientific, philosophical and religious studies, in literary and artistic expressions, the humanities seek the common awareness of the human problem and the varying attempts at its solution.

The major in humanistics studies is recommended for students with broad interest in liberal arts. As a double major it offers an ideal complement for such areas as the social sciences, history, literature the languages, the sciences and the arts.

Required Courses

Semester Hours

The Contemporary Prospectives

4903 101	Man: the Contemporary Search.....	3
4903 151	Seminar: Inquiry in the Humanities.....	3

Historical and Transcultural Perspectives

4903 201	Man: the Historical Search I.....	3
4903 202	Man: the Historical Search II.....	3
4903 251	Man without Boundaries.....	3
Concentration		15

Each major, in cooperation with an adviser and the general humanities committee, will plan an area of concentration from the total offerings of the College. The concentration is to be humanities-oriented and interdisciplinary in structure.

Senior Humanities Seminar	4
---------------------------------	---

Courses of Instruction

K 4903 101	MAN: THE CONTEMPORARY SEARCH	3.0
An interdisciplinary inquiry into the contemporary awareness of the problem of man.		

K 4903 151	SEMINAR: INQUIRY IN THE HUMANITIES	3.0
An introduction to the methodologies and modes of interpretation in the humanities. Students will concentrate on one contemporary problem of theme, approached from an interdisciplinary perspective.		

K 4903 201	MAN: THE HISTORICAL SEARCH I	3.0
The contemporary problem of man, approached from an historical perspective through selective, rather than chronological, study of seminal moments from ancient to renaissance in evolution of human consciousness of problems of being human.		

K 4903 202	MAN: THE HISTORICAL SEARCH II	3.0
The study of seminal moments, from Renaissance to 20th century, in the evolution of human consciousness of problems of being human.		

K 4903 251
MAN WITHOUT BOUNDARIES: THE TRANSCULTURAL PERSPECTIVE 3.0

A comparative, interdisciplinary study of the transcultural awareness of the problem of man and the human condition.

K 4903 470
SEMINAR IN CLASSICAL HUMANITIES 3.0
 Topic to be selected according to interest and leadership potential and developed by an interdisciplinary approach.

K 4903 480
INDEPENDENT STUDY IN GENERAL HUMANITIES 1-4.0
 Directed independent study and research in general humanities. May be elected in lieu of 4903 499, senior humanities seminar, in years when the seminar is not being offered.

K 4903 499
SENIOR HUMANITIES SEMINAR 4.0
 A seminar for majors. The student will develop, in a senior thesis or other creative project, an interdisciplinary approach to an idea or problem rising from his concentration.

Paralegal Studies

Minor (24 sh)

Coordinator: Marilyn R. Frankenthaler

The Paralegal Studies Minor offers the student a balanced and varied background in the legal fundamentals, appropriate skills, and practical field work experience necessary for work as a legal assistant. Paralegal Studies develops intellectual and analytical skills, trains students for direct employment opportunities in the legal assistant field, and provides supplemental career possibilities in combination with many diverse majors.

The Montclair State College Paralegal Studies Program is the first and only program at a four-year college in the State of New Jersey to receive American Bar Association Approval.

A CERTIFICATE OF PARALEGAL STUDIES is awarded to all students who fulfill the 24 credit hours required in the Program and who have completed a minimum of two years of college study.

There are four possible courses of study within the Montclair State College Paralegal Studies Program. They include General Law Practice and three specializations: Trademark and Copyright Law, Patent Law and a Hispanic Specialization for bilingual students.

GENERAL LAW PRACTICE

Course of Study

Semester Hours

Paralegal Studies

1499 220	Introduction to Paralegalism*	3
1499 230	Fundamentals of Legal Research	3
1499 221	Civil Litigation	2

Choice of 2 of the following

Paralegal Specialty Courses.....	6
1499 301 Domestic Relations.....	3
1499 302 Real Estate Law.....	3
1499 303 Wills, Trusts, Probate Law.....	3
1499 304 Corporations and Partnerships.....	3
1499 305 Personal Injury Law.....	3
1499 325 Seminar and Internship Law.....	4

Political Science

1499 321	Law in Society: Criminal Law	3
----------	------------------------------	---

Accounting, Law, and Taxation

1499 261	Legal Environment of Business I	3
----------	---------------------------------	---

Total Semester Hours for Program = 24

*Political Science 0103, Institutions of American Government is a recommended course.

SPECIALIZATIONS

Students completing the Trademark and Copyright Specialization must take the following legal specialty courses:

1499 310	Introduction to Patent, Trademark and Copyright Law	
1499 313	U.S. and International Trademark and Copyright Law and Practice.	

Students completing the Hispanic Specialization may choose one legal specialty course and must take as their second legal specialty course:

1499 316	Skills for Bilingual Legal Personnel	
----------	--------------------------------------	--

The Patent Law Specialization is open only to students with majors in the School of Mathematics and Natural Science. A Patent Agent Option is also possible.

PATENT LAW

Pre- or co-requisite, *Paralegal Studies*:

1499 310	Introduction to Patent, Trademark, and Copyright Law	3
----------	--	---

Course of Study

Semester Hours

Paralegal Studies

1499 220	Introduction to Paralegalism	3
1499 230	Fundamentals of Legal Research	3
1499 311	Patent Law I	3
1499 312	Patent Law II	3
1499 325	Seminar and Internship in Law	4

Industrial Studies

1499 415	Mechanical Engineering Drawing	3
----------	--------------------------------	---

Accounting, Law, and Taxation

1499 261	Legal Environment of Business I	3
----------	---------------------------------	---

Total Semester Hours for Program = 22

Courses of Instruction

9 1499 220
INTRODUCTION TO PARALEGALISM 3.0
 An introduction to certain basic areas of the law, to the legal process, and to the legal system, particularly as it operates in the State of New Jersey. The roles of the lawyer and the paralegal within the legal system. Familiarization with ethical considerations and specific paralegal skills in the areas of interviewing, investigation, and advocacy.

9 1499 221
CIVIL LITIGATION 2.0
 The terminology of civil law. Substantive and procedural principles relating to all stages of a civil law suit from commencement to judgement, particularly as applied to New Jersey Civil Practice Rules. Drafting of pleadings, motions, and other documents in a civil law suit. Trial and appellate procedures.
Pre- or co-requisite: 9 1499 220.

9 1499 230
FUNDAMENTALS OF LEGAL RESEARCH 3.0
 Fundamental principles and methods of legal research. The use of a law library, case law, statutory law, and other sources. The application of the tools of legal research to case analysis, digesting legal opinions, and writing a law office memorandum.

9 1499 301
DOMESTIC RELATIONS LAW 3.0
 Basic concepts and scope of domestic relations law and family law practice. Familiarization with forms and procedures to train the legal assistant in this area. Anti-nuptial agreements, formal ties of marriage, separation agreements, divorce.
Pre-requisites: 9 1499 220, 9 1499 221, 9 1499 230.

9 1499 302
REAL ESTATE LAW 3.0
 Principles of real estate law and transactions to train the legal assistant in this area of practice. Conveyances of real property from the standpoint of seller and purchaser. Landlord-tenant relations.
Pre-requisites: 9 1499 220, 9 1499 221, 9 1499 230.

9 1499 303
WILLS, TRUSTS, AND PROBATE LAW 3.0
 Basic concepts, practice, and procedure in wills, probate, and trusts. Will drafting, estate planning, probate procedures, and estate administration. Forms and questionnaires utilized by paralegals in these areas.
Pre-requisites: 9 1499 220, 9 1499 221, 9 1499 230.

9 1499 304
CORPORATIONS AND PARTNERSHIPS 3.0
 Legal characteristics and tax aspects related to sole proprietorship, partnership, limited partnership, and corporation. Formation, operation, and dissolution of the corporate entity. Drafting of legal forms utilized by paralegals in these areas.
Pre-requisites: 9 1499 220, 9 1499 221, 9 1499 230.

9 1499 305
PERSONAL INJURY LAW 3.0
 Legal concepts and terminology of personal injury law, both substantive and procedural. Drafting of pleadings and other documents utilized by paralegals in personal injury practice. Negligence, medical malpractice, products liability.
Pre-requisites: 9 1499 220, 9 1499 221, 9 1499 230.

9 1499 310
INTRODUCTION TO PATENT, TRADEMARK, AND COPYRIGHT LAW 3.0
 Substantive and procedural legal foundation in these areas. Application and registration procedures. Standards of patentability. Trademark registration. Subject matter of copyrights.

9 1499 311
PATENT LAW I 3.0
 Preparation and filing of patent applications. Introduction to Patent Office Procedures. Open to students enrolled in the Patent Law Specialization.
Pre-requisite: 9 1499 310.

9 1499 312
PATENT LAW II 3.0
 Patent Office Prosecution and ancillary proceedings. Open to students enrolled in the Patent Law Specialization.
Pre-requisites: 9 1499 310, 9 1499 311.

9 1499 313
UNITED STATES AND INTERNATIONAL TRADEMARK AND COPYRIGHT LAW AND PRACTICE 3.0
 A study of the law and practice in the areas of trademarks and copyrights, as they relate to the work of legal assistants in this area. Contrasts and comparisons between United States and international practice.
Pre-requisite: 9 1499 310.

9 1499 316
SKILLS FOR BILINGUAL LEGAL PERSONNEL 3.0
 Translating, interpreting, and cultural fluency as applied to the legal field and in particular to the role of bilingual paralegals. Fluency in Spanish required.

9 1499 325
SEMINAR AND INTERNSHIP IN LAW 4.0
 Field work experience of 120 hours in a private sector law office, corporation, bank, or public sector agency. Also includes classroom seminar. Permission of instructor required.
Pre-requisites: 9 1499 220, 9 1499 221, 9 1499 230.
Pre- or corequisites: 2 legal specialty courses chosen from among 9 1499 301, 302, 303, 304, 305, and, for students enrolled in specializations, 310, 311, 312, 316.

9 1499 326
INTERNSHIP IN LAW II 3.0
 Continuation of 9 1499 325. Optional elective. Field work experience of 90 hours in a private sector law office, corporation, bank, or public sector agency.

ROTC Army, Air Force

9 1801 100
INTRODUCTION TO U.S. ARMY AND ROTC 1.0
 Military organizations, customs, traditions, and life-styles. Introduction to basic military skills (includes drill, communications, marksmanship, and map reading.)

9 1801 110
FUNDAMENTALS OF LEADERSHIP 1.0
 Theory, methods, and principles for understanding leadership and behavior in groups, the impact of the leader's behavior on the leadership process, and an introduction to counseling as a leadership concept.

9 1801 111

LEADERSHIP LABORATORY

1.0

Hands-on training of the basic skills of a soldier, including weapons, first aid, chemical-biological-radiological (CBR) defense, communications and physical fitness training. Emphasis is placed upon utilization and maintenance of equipment. Students receive practical experience in leadership and management by assuming the responsibilities of leaders, trainers and staff officers.

9 1801 112

LEADERSHIP LABORATORY

1.0

Hands-on training of the basic skills of a soldier, including weapons, first aid, chemical-biological-radiological (CBR) defense, communications and physical fitness training. Emphasis is placed upon utilization and maintenance of equipment. Students receive practical experience in leadership and management by assuming the responsibilities of leaders, trainers and staff officers.

9 1801 130

TOPOGRAPHICAL MAP READING

1.0

An introduction to topographical map reading and land navigation techniques. Methods of navigating using the magnetic compass and natural terrain features.

9 1801 155

LEADERSHIP DEVELOPMENT

1.0

A study of the skills and knowledge that are the foundations for developing military leaders. Included are military courtesy and discipline, customs and traditions of the service, and an analysis of the leader's role in directing and coordinating the efforts of individuals and small units in accomplishing their missions.

9 1801 160

AMERICAN MILITARY HISTORY

2.0

A study of the development of American military institutions, policies, experiences and traditions in peace and war From colonial times to the present. Emphasis will be on the relationship between the military and other aspects of American society and the role of the military in the establishment, expansion preservation, and development of the nation.

Women's Studies Minor

The Women's Studies Minor program is an interdisciplinary academic program. The minor includes two required three credit core courses: an introductory interdisciplinary course and an independent study project at the end of the minor program. Flexibility of choice for the other 12 credits from courses in various academic departments permits a student either to get a broad perspective of women's studies or to specialize in an area such as women in literature or women in society. Each student should consult with the faculty advisor of the Women's Studies program, to work out a suitable course of studies to meet the minor requirements. the Women's Studies minor consists of 18 credits.

Required Courses

4990 101 INTRODUCTION TO WOMEN'S STUDIES

3.0

A team of two or more faculty members from various disciplines, employing scientific, sociological, historical, and artistic insights, methods and data examines the sources and meanings of different treatments of women in this and other human societies.

4990 401

INDEPENDENT STUDY

3.0

This course, required in the senior year, will have two options: a) advanced research in a project in a particular discipline using the tools a student has acquired in his/her studies; b) a practicum of field work in which a student goes out into the community to work with women and to gain data and firsthand experience concerning the practical problems of women within various careers.

Electives

Select 12 sh from the appropriate interdepartmental list to be obtained from the coordinator of the program.



BOARD OF TRUSTEES

Chairperson

Dr. Ernest M. May

Vice Chairperson

Mr. Borden R. Putnam

Secretary

Millicent G. Anisfield

Dr. David W.D. Dickson, Ex Officio

Dr. Robert Birmbaum
Mr. Murray L. Cole
Dr. W. Lincoln Hawkins
Edward A. Jesser, Jr.
Mr. William L. Muckelroy
Dr. Lilliam Valdés-Díaz

Faculty Representative
Dr. Kay Wilkins

Alumni Representative
Mrs. Florence Hampton

Student Representative
Laura Pedalino

COLLEGE ADMINISTRATION

OFFICE OF THE PRESIDENT

David W. D. Dickson, Ph.D., L.H.D., President
Rene Gimbreare, Ph.D., Director of Institutional Research and Assistant to the President
Helen M. Ochs, Special Assistant to the President and Secretary to Board of Trustees
Cynthia A. Lepre, B.A., Director, Alumni Affairs
Anita Walters, L.L.B., Director of Equal Opportunity/Affirmative Action
Graydon A. Tunstall, Jr., Ph.D., Director of Development and External Relations
Rhea B. Seagull, B.A., Director of Public Relations
Wanda Kline, Director of Publications

OFFICE OF ACADEMIC AFFAIRS

Roland Garrett, Ph.D., Vice President
Jesse Young, M.A., Assistant to Vice President
Anthony R. Kuolt, M.Ed., Administrative Associate
Curtis Dixon, B.A., Assistant Director, Upward Bound Program
Julie A. Marchini, B.A., Assistant Director, Cultural Planning
Sheila McKenna, Assistant Director, Music Preparatory Division
Martin L. Smith, M.A., Supervisor, Performing Arts Facilities

GRADUATE STUDIES

Stephen Dobish, Ed.D., Associate Director

School Academic Counselors

Gay DiVirgilio, M.A., Professional Studies and Business
Gail Feinbloom, M.A., Humanities/Social and Behavioral Sciences
Marie Frazee-Baldassarre, Ed.D., Mathematics and Sciences
Jose Gorrin, M.A., Humanities/Social and Behavioral Sciences
Jose Magdalene, M.S., Professional Studies and Business
Marc Schaeffer, M.A., Professional Studies and Business

Carl Snipes, M.A., Humanities/Social and Behavioral Sciences
Galdys Tate, M.A., Humanities/Social and Behavioral Sciences
William Welsch, M.A., Professional Studies and Business
Eileen Weinman, M.A., Humanities/Social and Behavioral Sciences
Marcella West, M.A., Education
Laura Woodson-Hammond, M.A., Fine and Performing Arts

COMMUNICATION DISORDERS — DEMONSTRATION PROGRAM

Antoinette Spiotta, M.A., Director
Susan A. Cook, M.A., Assistant Director
Kathryn V. Gartner, M.A., Assistant Director
Miriam S. Pennington, B.A., Teacher I
Martha J. Perl, M.A., Teacher I

OFFICE OF ADMINISTRATION AND FINANCE

Elliot I. Mininberg, Ph.D., Vice President
Peter R. Macagne, B.S., Assistant to Vice President, Administration and Finance
Richard R. Davis, M.A., Director of Personnel Services
Caroline Trimble, B.A., Senior Personnel Assistant
Joan E. Beck, Personnel Assistant
William J. Kervick, B.S., Director of Business Services
Charles W. Moore, M.B.A., Director of Budget and Fiscal Planning
Vilma Fernandez, B.A., C.P.A., Bursar
Regina Rudenstein, B.A., Senior Buyer
Joseph E. McGinty, Engineer in Charge of Maintenance
Jayne Rich, B.S., Chief, Campus Police, Security and Safety
Charles F. Paige, Lieutenant, Campus Police
Jerome R. Quinn, P.E., Director, Institutional Planning

COMPUTER CENTER

Malcolm L. Truesdell, Director, Information Management Systems
Edward J. Buscavage, Assistant Director, Computer Center

INTER-COLLEGIATE ATHLETICS

William Dioguardi, M.S., Director, Athletics
Oliver S. Gelston, M.A., Assistant Director, Athletics
Fred Hill, B.A., Assistant Director, Athletics
Donna J. Olsen, M.S., Assistant Director, Athletics
Enrico N. Giancola, B.A., Athletic Coach
Gregory L. Lockard, M.A., Athletic Coach
Michelle D. Willis, M.S., Athletic Coach

FACULTY-STUDENT COOPERATIVE

Douglas H. Miller, M.A., Director, Faculty Student Cooperative
Margaret G. Bychek, Assistant Director, Faculty Student Cooperative
Harold B. Ostroff, B.A., Manager, Student Center Business Services
Nancy G. Carver, B.A., Assistant Manager, Student Center Business Services

OFFICE OF ACADEMIC SERVICES

Robert E. MacVane, M.Ed., Vice President

John H. Leffler, M.A., Director, Summer Sessions

ADMISSIONS

Alan L. Buechler, Ed.M., Director
Mary B. Wilkin, M.A., Associate Director
Frank C. Erdman, M.A., Assistant Director
Abie Flippin-Smith, B.A., Assistant Director
Ada Ortiz, B.A., Assistant Director

REGISTRAR

Marshall A. Butler, M.A., Registrar
Sally B. Ayrey, M.A., Associate Registrar
Sally G. Pollock, M.A., Assistant Registrar
Ruth Overholser, M.A., Assistant Registrar
Denise M. DeBlasio, B.A., Evaluator
Janis Murphy, M.A., Evaluator
M. Patricia Fries, M.A., Evaluator
Emily Mudryk, M.A., Evaluator
Janis Murphy, M.A., Evaluator
Dianne Rivetti, M.A., Evaluator

LIBRARY

Blanche W. Haller, B.A., B.L.S., Director of Library Services

Zdenka Winters, M.L.S., Assistant Director for Technical Services

MEDIA CENTER

Robert R. Ruezinsky, M.A., Director

John F. Diglio, M.A., Associate Director
David S. Fogg, M.A., Associate Director
John J. O'Brien, B.A., Supervisor, Media Services
William E. Puskas, A.A., Television Coordinator

INTRA-COLLEGIATE ACADEMIC PROGRAMS

Curtis Jackson, Ed.D., Director
Alicia P. Savage, M.A., Assistant Director, ICAP and Director, Second Careers Program
Reuben Johnson, M.A., Director, Educational Opportunity Fund
Freyda Lazarus, M.A., Director, Cooperative Education
Evelyn Del Toro, M.S., Assistant Director, Cooperative Education
Hollie Stevens, M.A., Assistant Director, Cooperative Education
John G. Redd, Ph.D., Director, Upward Bound
Maria Martinez, B.A., Assistant Director, Upward Bound
John H. Sanz, M.S., Director, Weekend College
Constance Waller, Ed.D., Director, Women's Center
Yvonne Burton, M.S., Associate Director, EOF
Geraldine Barlow, M.A., Academic Advisor, EOF
Thomas Puryear, M.S., Academic Advisor, EOF
Deborah Gilbert, M.A., Academic Advisor, EOF
Mary V. Larsen, M.A., Academic Advisor, EOF
Carlos Ortiz, M.A., Academic Advisor, EOF

CENTERS OF ADULT CONTINUING EDUCATION

Ray J. Ast, M.A., Administrative Director
Joann L. Berg, M.A., Assistant Director, Adult Education Resource Center
Warren S. Ceurvets, M.A., Director, Adult Education Resource Center
Frances M. Spinelli, M.A., Director, National Adult Education Clearinghouse
Richard O. Taubald, Ed.D., Principal Associate, CEU Technical Assistance

OFFICE OF STUDENT AFFAIRS

Jean M. Armstrong, Ph.D., Dean of Student Affairs
Edward C. Martin, Ed.D., Associate Dean of Student Affairs
James E. Harris, M.A., Assistant Dean of Student Affairs
Lillian Rosenberg, M.D., College Physician
Peter Donovan, M.A., Academic Counselor, Undeclared students

CAREER SERVICES

Patricia Haney, M.A., Director
Eileen Bruck, M.A., Assistant Director
Peter M. Prichard, M.A., Assistant Director
Janine Shuster, M.A., Career Counselor
Eleanor Peters, M.A., Counselor and Job Developer

COUNSELING AND PSYCHOLOGICAL SERVICES

Susan J. Herman, Ph.D., Director
Robert Goggins, Ph.D., Counselor

FINANCIAL AID

Randall W. Richards, III, Ed.D., Director
Robert Baylor, M.A., Assistant Director
Edith Duroy, M.A., Assistant Director
Martin Ricbburg, M.A., Assistant Director
Ann Patterson, Assistant

HOUSING

Raymond M. Stover, Jr., Ed.D., Director
Lois D. Redd, M.A., Coordinator, Housing and Food Services
John T. Sherman, M.A., Residence Area Manager
Shirley Stetson, B.A., Assistant Coordinator, Housing and Food Services

STUDENT ACTIVITIES

Thomas F. Stepnowski, M.A., Director
McKinley Boston, M.A., Director, Intramurals and Leisure-Time Activities
Robert Gieza, B.A., Assistant Director
Michael Bobrowicz, B.S., Assistant Director, Chief Engineer, WMSC-FM
Marsha Cambell Young, B.S., Assistant Director, Scheduling Officer
Beth Sharp-Webber, M.Ed., Assistant Director
Phy One Scott, B.S., Assistant Director

VETERANS AFFAIRS

Kenneth J. Key, Director

FACULTY

ACCOUNTING, LAW & TAXATION

FRANK J. AQUILINO: MBA, BBA, St. John's University; CPA, State of New York
FRANK CAHILL: MBA, Rutgers The State University; BS, St. Peter's; CPA, State of New York
IRENE K. DOUMA: MBA, Rutgers The State University; BS, Fairleigh Dickinson; CPA, State of New Jersey
ELLIOT S. EISENBERG: PhD, MBA, New York University; BA, Queens College

JOSEPH GRECO: PhD, MBA, New York University; BBA, St. John's University; CPA, State of New Jersey
PAUL KONZELMANN: JD, Delaware Law School; MBA, BS, Fairleigh Dickinson
LEO J. McMENIMEN: PhD, MS, BS, Penn State College; CPA, State of New Jersey and New York
PHYLLIS L. MIRCHIN: MBA, New York University; BS, William Paterson College
RALPH J. PALUMBO: MBA, Fairleigh Dickinson University; BS, Montclair State College; CPA, State of New Jersey
LEE PRIMIANO: MBA, Rutgers The State University; BA, Montclair State College; CPA, State of New Jersey
ARNOLD SCHANCUPP: LLM, New York University; JD, Brooklyn Law School; BBA, CCNY; CPA, State of New Jersey and New York
DOROTHY L. SHAPIRO: JD, Brooklyn Law School; MBA, Pace University; BS, Wagner College; CPA, States of New Jersey and New York

ANTHROPOLOGY

JAMES BOYLAN: PhD, MA, BA, Wayne State University
KENNETH H. BROOK: PhD, CUNY; MA, BA, Hunter College
DOROTHY K. CINQUEMANI: PhD, Columbia University; BA, University of New Mexico
MARCHA P. FLINT: PhD, CUNY; MA, New York University; BA, Hunter College
RICHARD W. FRANKE: PhD, BA, Harvard University
HARRIET M. KLEIN: PhD, Columbia University; BA, University of Chicago
BERTHA B. QUINTANA: EdD, MA, New York University; BA, Upsala College
MAURIE SACKS: PhD, Columbia University; BA, Queens College

BIOLOGY

LARRY D. CRIBBEN: PhD, Ohio State University; MNS, University of Oklahoma; BS, Rio Grande College
ANN MARIE DI LORENZO: PhD, MS, New York University; BA, Trinity College
ROSALYN T. KANE: MS, New York University; BA, Hunter College
CHRISTOPHER B. KENNETT: PhD, Fordham University; MS, William Paterson College; BA, Fairleigh Dickinson University
LEAH K. KODITSCHKE: PhD, Rutgers The State University; MA, Oberlin College; BA, Hunter College
STEPHEN J. KOEPP: PhD, MA, North Texas State University; BA, Messiah College
JOHN K. KORKY: PhD, University of Nebraska; MS, University of Texas at El Paso; BS, Wagner College
S. MARIE KUHNEN: PhD, New York University; MA, Columbia University; BA, Montclair State College
JON MICHAEL McCORMICK: PhD, MS, Oregon State University; BS, Portland State University
ANNA C. PAI: PhD, Albert Einstein College of Medicine; MA, Bryn Mawr College; BA, Sweet Briar College
JUDITH A. SHILLCOCK: PhD, Rutgers The State University; MA, Montclair State College; BS, Seton Hall University
PAUL P. SHUBECK: PhD, Rutgers The State University; MA, Montclair State College; BS, Seton Hall University
ALVIN A. STEIN: PhD, CUNY; MS, BS, Brooklyn College

BUSINESS EDUCATION & OFFICE SYSTEMS ADMINISTRATION

STEPHEN CYRUS: EdD, Temple University; MA, BA, Montclair State College
DOLORES GIOFFRE: MA, BS, Trenton State College
JOSEPH C. HECHT, EdD, MA, New York University; BS, Long Island University
B.J. MANGOLD: MS, BS, SUNY at Albany
ROSEMARIE McCAULEY: MA, Seton Hall University; BA, Trenton State College
ALBERT D. ROSSETTI: EdD, Rutgers The State University; MA, Montclair State College; BS, Trenton State College
SHEPHERD WALKER: MBA, Long Island University; BBA, Pace University
PALMINA A. UZZOLINO: MA, Catholic University; BS, New York University

CHEMISTRY

HANI Y. AWADALLAH: MS, Bowling Green State University; BS, Cairo University
JOSEPH D. BECKER: EdD, MA, Columbia University; JD, Seton Hall University; Med, University of Delaware; BA, Harvard University
LUCILE S. FINK: MS, Fordham University; BA, Mount Holyoke College
ROLAND R. FLYNN: MA, Brown University, BA, Montclair State College
ANDREW R. GALLOPO: PhD, Brown University; BA, Rutgers The State University
IRWIN H. GAWLEY, JR.: EdD, Columbia University; MA, BA, Montclair State College
JOHN L. ISIDOR: PhD, University of North Carolina; BS, Stonehill College
MARC L. KASNER: PhD, Purdue University; BS, California State University at Long Beach
RICHARD A. LYNDE: PhD, Iowa State University; AB, Hamilton College
MARK L. LYNDROP: PhD, Northwestern University; BS, Trinity College
NANCY S. PAISLEY: PhD, MA, University of Illinois; BA, University of Minnesota
ALBERT ZABADY: MS, University of New Hampshire; MA, BA, Montclair State College

CLASSICS

DAVID H. KELLY: PhD, MA, University of Pennsylvania; BA, Catholic University
TIMOTHY T. RENNER: PhD, MA, University of Michigan; BA, Yale University

COMMUNICATION SCIENCES AND DISORDERS

JOSEPH S. ATTANSIO: PhD, New York University; MA, BA, Montclair State College
ELAINE BARDEN: PhD, Columbia University; MA, Seton Hall University; BA, Douglass College
GERARD CARACCILO: EdD, Teachers College, Columbia University; MA, BA, Montclair State College
WARREN HEISS: EdD, Yeshiva University; MA, Jersey City State College; BS, Pennsylvania State University
GILBERT LEIGHT: PhD, MA, Columbia University; BS, CCNY
MICHAEL LINDENMAN: PhD, New York University; MA, Teachers College, Columbia University; BA, Trenton State College
NAOMI SCHIFF-MYERS: PhD, MA, Teachers College, Columbia University; BA, Barnard College
HAROLD SCHOLL: EdD, Teachers College, Columbia University; MBA, BBA, CCNY
TERRY D. SCHON: PhD, Syracuse University; MA, Hunter College; BS, Bowling Green State University
EDWARD SHULMAN: PhD, University of Iowa; MS, University of Minnesota; BA, Western Michigan University

GERALD WOOLF: PhD, New York University; MA, University of Pittsburgh; BS, CCNY
 SHIRLEY ZEITLIN: PhD, MS, SUNY at Albany; MS, SUNY at New Paltz; MS, CCNY; BS, New York University

COUNSELING, HUMAN SERVICES & GUIDANCE

MARIE FRAZEE-BALDASSARRE: EdD, Columbia University; MA, BA, Montclair State College
 ABRAHAM GELFOND: PhD, MA, New York University; BS, Rutgers The State University
 ALFRED H. GORMAN: EdD, Columbia University; MA, BS, New York University
 DONALD B. GREGG: EdD, Lehigh University; BA, MA, Montclair State College
 RICHARD A. GREY: EdD, Fordham University; MA, Montclair State College; BS, Winston-Salem Teachers College
 LAWRENCE B. HAMEL: PhD, BA, St. John's University; MA, Boston University
 ARLENE KING: PhD, Fordham University; MA, Montclair State College; BA, New York University
 THOMAS MILLARD: EdD, Fairleigh Dickinson University; MA, New York University; MSW, Third Year Certificate, Columbia University; BA, Rutgers The State University
 EDWIN MILLS: MEd, Florida Atlantic University; BA, Bob Jones University
 EIDOLA J. TALLEY: PhD, Boston University; MA, University of Rhode Island; BA, University of Texas
 TETE H. TETENS: MA, Columbia University; BS, Union College
 CONSTANCE WALLER: EdD, MA, Columbia University; BS, Indiana University

CURRICULUM & TEACHING

JOHN BARELL: EdD, Columbia University; MA, CUNY; AB, Harvard University
 CATHERINE A. BECKER: PhD, New York University; MA, BA, Montclair State College
 SUSIE B. BOYCE: EdD, Rutgers The State University; MAT, Tulane University; BA, Florida State University
 J. THOMAS FLAGG: EdD, Rutgers The State University; MA, BA, Montclair State College
 NICHOLAS M. MICHELLI: EdD, Columbia University; MA, New York University; BA, Montclair State College
 ROBERT A. PINES: EdD, University of Miami; MS, Rutgers The State University; BS, Monmouth College
 ANITA E. UHIA: EdD, Rutgers The State University; MA, Montclair State College; BA, Fairleigh Dickinson University
 JOSEPH L. VENTURINI: EdD, MEd, Rutgers The State University; BA, Glassboro State College

ECONOMICS

GREGORY CLARE: MA, BA, Rutgers The State University
 SURESH DESAI: PhD, MA, U.C.L.A.; PhD, LLB, MA, BA, Gujarat University (India)
 HAROLD FLINT: PhD, MA, Southern Illinois University; BA, Western Kentucky University
 HUMPHREY HUSBANDS: MA, Hunter College; BBA, Baruch College
 SIDNEY J. KRONISH: PhD, Yeshiva University; MA, BS, New York University
 KAMROUZ PIROUZ: PhD, University of Hawaii; BS, Wisconsin State University
 MARGARET REILLY-PETRONE: PhD, MA, Fordham University; BA, Immaculate Heart College
 FRANCES SCHER: MA, Columbia University; BA, Smith College

SERPIL SISIK-LEVEEN: PhD, New York University; MA, Southern Illinois University; BA, University of Ankara (Turkey)

EDUCATIONAL FOUNDATIONS

GEORGE BERNSTEIN: EdD, MA, Teachers College, Columbia University; BA, Rutgers The State University
 MARY E. BREDEMEIER: EdD, Rutgers The State University; MA, Columbia University; BS, Madison College
 FRANCESCO CORDASCO: EdD, MA, New York University; BA, Columbia University
 MYRNA DANZIG: MAT, Radcliffe College, BA, Cornell University
 THUNDER F. HAAS: EdD, Rutgers The State University; MA, BS, Seton Hall University
 ANN MARGARET SHARP: EdD, University of Massachusetts; MA, Catholic University; BA, College of New Rochelle

EDUCATIONAL LEADERSHIP

LAURENCE BELLAGAMBA: EdD, Columbia University; MA, BS, New York University
 JOSEPH F. BRUNNER: EdD, University of Massachusetts; MA, BA, Jersey City State College
 ANNE C. CASTENS: EdD, Rutgers The State University; MA, BA, Montclair State College
 WILLIAM A. CUFF: PhD, New York University; MA, George Washington University; BA, Adelphi College
 JULIA DUTKA: EdD, EdM, MA, Teachers College, Columbia University; BA, Hong Kong University
 GEORGE D. HEISS: EdD, Rutgers The State University; EdM, University of Maryland; BA, Brooklyn College
 TINA JACOBOWITZ: PhD, New York University; MA, University of Wisconsin; BA, Brooklyn College
 GERHARD LANG: PhD, Columbia University; MA, BS, CCNY
 FRANK P. MERLO: EdD, Rutgers The State University; MA, BA, Montclair State College
 WENDY G. OXMAN: PhD, Fordham University; MA, Yeshiva University; BA, Brandeis University
 GROSVENOR RUST: PhD, AM, University of Chicago; AB, Wheaton College
 MARIA E. SCHANTZ: EdD, Columbia University; MA, Montclair State College; BS, Jersey City State College
 DIANA J. STONE: PhD, Fordham University; MA, Montclair State College; BA, Adelphi College
 ERCELL I. WATSON: LLD, Delaware State College; EdD, University of Pennsylvania; BA, Howard University; BA, Delaware State College
 DAVID E. WEISCHADLE: EdD, EdM, BS, Rutgers The State University

ENGLISH

VICTOR ALPER: PhD, MA, New York University; BA, Boston University
 SHAHLA ANAND: PhD, New York University; MA, Agra University (India); MA, Columbia University
 JEANNINE A. BARRETT: PhD, MA, New York University; BA, Tennessee State University
 MURIEL BECKER: MLS, Rutgers The State University; MA, Montclair State College; BA, Hunter College
 THOMAS BENEDIKTSSON: PhD, University of Washington; BA, Trinity University
 BUTLER E. BREWTON: PhD, Rutgers The State University; MA, Montclair State College; BA, Benedict College
 JANET K. CUTLER: PhD, MA, University of Illinois, Champaign-Urbana; BA, The University of Chicago

WILLIAM C. DELL: MA, BA, New York University
 DAVID W. D. DICKSON: PhD, MA, Harvard University; LHD, BA, Bowdoin College
 WOLFGANG B. FLEISCHMANN: PhD, MA, University of North Carolina; BA, St. John's College
 GROVER C. FURR: PhD, MA, Princeton University; BA, McGill University
 ROBERT G. GORDON: MA, BA, Colgate University
 MICHAEL F. GRIECO: MA, Columbia University; BA, Montclair State College
 FRANK B. HANSON: PhD, Yale University; MA, University of North Carolina; BS, University of Maine
 CLAIRE HEALEY: PhD, MA, Columbia University; BS, Boston University
 BARRY D. JACOBS: PhD, MA, Harvard University; BA, DePauw University
 RITA JACOBS: PhD, MA, University of Pennsylvania; BA, Queens College
 PERCY E. JOHNSTON: MA, Montclair State College; BA, Howard University
 LEE C. KHANNA: PhD, MA, Columbia University; BA, Denison University
 NAOMI C. LIEBLER: PhD, MA, SUNY at Stony Brook; BA, City College of New York
 ANTHONY L. LOVASCO: MA, University of Connecticut; BA, Williams College
 MORRIS G. MCGEE: EdD, MA, New York University; BA, Montclair State College
 DAVID MERANZE: DFA, MFA, Yale University; BA, Harvard University
 ALYCE SANDS MILLER: PhD, MA, Pennsylvania State University; BA, Hunter College
 JAMES F. NASH: PhD, MA, University of Virginia; BA, LaSalle College
 J. RAYMOND PAUL: MA, Columbia University; BA, Princeton University
 GEORGE R. PETTY JR.: PhD, MA, New York University; BA, Princeton University
 THEODORE PRICE: PhD, Rutgers The State University; MA, Columbia University; BA, Kenyon College
 MURRAY PROSKY: PhD, MA, University of Wisconsin; BA, New York University
 SANFORD RADNER: EdD, MA, Columbia University; BA, Duke University
 MORTON D. RICH: PhD, New York University; MEd, Rutgers The State University; BA, Cornell University
 DOROTHY R. RUDY: MA, Columbia University; BA, Queens College
 LAWRENCE SCHWARTZ: PhD, Rutgers The State University; MA, Stanford University; BA, Newark College of Engineering
 DOUGLAS M. SCHWEGEL: PhD, University of Minnesota; MA, George Washington University; BA, Lake Forest College
 KEITH D. SLOCUM: PhD, MA, University of Pennsylvania
 SHARON SPENCER: PhD, MA, BA, New York University
 CAROLE B. STONE: PhD, Fordham University; MA, Rutgers The State University; BA, New York University
 DAVID M. STUEHLER: PhD, MA, New York University; BA, Rutgers The State University

ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES

HOWARD R. BALLWANZ: MS, Ed, BS, Northern Illinois University
 BERTRAND P. BOUCHER: MA, BA, Colorado University
 SOPHIA G. HINSHALWOOD: PhD, Rutgers The State University; MA, University of Georgia; BA, Central College
 W. AUGUSTUS RENTSCH: PhD, University of Michigan; MA, Montclair State College; BA, Adrian College (Iowa)

DAVID K. ROBERTSON: PhD, MS, Rutgers The State University; BA, University of Michigan
 HARBANS SINGH: PhD, Rutgers The State University; MA, Punjab University (India), BA, Government College (Rupar, India)
 ROLF STERNBERG: PhD, Syracuse University; MA, Clark University; BA, Ursinus College
 ROBERT W. TAYLOR: PhD, MA, St. Louis University; BA, Washington University

SCHOOL OF CONSERVATION

REGINA N. KELLY: MA, Trenton State College; MA, University of St. Andrews; BA, Trenton State College
 JOHN J. KIRK: PhD, MA, University of Michigan; BS, Boston University
 JAMES K. MERRITT: MA, Glassboro State College; BA, Trenton State College
 LEAH POWERS: MA, Trenton State College; MA, University of St. Andrews; BS, Taylor University
 JERRY T. SCHIERLOH: MA, Purdue University; BS, Western Michigan University

FINANCE & QUANTITATIVE METHODS

AMAR D. AMAR: PhD, CUNY; MS, Montana State University; BS, Punjab University
 NEMAT BAHMANI: MS, University of Pennsylvania; MS, Pahlavi University (Iran)
 ARYEH BLUMBERG: PhD, AM, AB, University of Chicago
 HARVEY BLUMBERG: PhD, CUNY; MBA, Baruch College; BBA, CCNY
 CHUAN YU CHEN: PhD, New York University; MS, University of Tokyo; MA, Columbia University; BS, National Taiwan University
 MILTON GOLDBERG: MBA, University of Pennsylvania; BA, BS, AA, University of Florida
 KATHARINE MORGAN: PhD, MBA, MA, Columbia University; BA, Regis College
 ALAN J. OPPENHEIM: PhD, New York University; MS, BS, Polytechnical Institute of Brooklyn
 STEVE ZWEIG: MBA, New York University; MS, BA, University of Pennsylvania

FINE ARTS

PETER G. BARNET: EdD, MA, BA, New York University
 SUSAN BARRIS: MA, Pratt Institute; BA, Brooklyn College
 JOHN CARTER: BA, MA, University of California at Los Angeles
 M. ANNE CHAPMAN: MFA, Cranbrook Academy of Arts; BFA, Cleveland Institute of Arts
 CARMEN CICERO: BS, Newark State College
 JOHN CZERKOWICZ: BFA, MA, University of New Mexico; MFA, Rutgers The State University
 LEON DELEEUEW: BA, MA, New York University
 SUELLEN GLASHAUSSER: MA, University of California; BA, Manhattanville College
 NANCY GOLDRING: MA, New York University; BA, Smith College
 BERNARD KAHN: MA, Columbia University; AB, Brooklyn College
 ABRAHAM KAMPE: PhD, MA, New School of Social Research; BS, New York University; Diploma, Art Teachers College, Tel Aviv
 ROBERT KIRSCHBAUM: MFA, Yale University, School of Arts; BA, University of Rochester
 RICHARD KYLE: MA, Teachers College, Columbia University; BA, Paterson State College
 PATRICIA LAY: MFA, Rochester Institute of Technology; BS, Pratt Institute

ARLINE LEDERMAN: BA, MA, New York University
 CHARLES MARTENS: MA, EdD, New York University; BSc in Ed, Massachusetts College of Art
 WILLIAM McCREATH: MFA, Cranbrook Academy of Art; BFA, University of Manitoba
 School of Arts; Diploma, Teachers College, Dundee, Scotland
 ELLEN MOHAMMED: MA, Columbia University; BS, University of North Carolina
 HELENE ROSS: MFA, BFA, BS, Temple University
 BETTY SCHLOSSMAN: PhD, MA, Columbia University; BA, Wellesley College
 KLAUS SCHNITZER: MFA, Ohio University; BA, SUNY at Albany
 JONATHAN SILVER: BS, MA, Columbia University
 MICHAEL SIPORIN: BA, MFA, Southern Illinois University
 WALTER SWALES: MFA, Cranbrook Academy of the Arts; BA, Temple University
 ALIDA WALSH: MFA, San Diego State College; BS, Northwestern University
 CAROL WESTFALL: MFA, Maryland College of Art; BFA, Rhode Island School of Design

FRENCH

MAURICE CAGNON: PhD, University of Pennsylvania; MA, Middlebury College; BA, Providence College
 ROBERT M. GLICK: PhD, BA, University of Chicago; MA, Middlebury College
 HELENE KLIBBE: PhD, Syracuse University; Licence-es-Letres Universite de Paris (Sorbonne)
 LOUIS J.M. ROEDERER: PhD, New York University; Licence en Droit Universite de Lyon
 MADELEINE A. SERGENT: MA, University of Colorado; Diploma de la Escuela Central de Idiomas, University of Madrid
 ROBERT SOFFER: MA, Teachers College Columbia University; MA, Columbia University; BA, New York University
 ENID M. STANDRING: PhD, New York University; Licence-en-Lettres, Universite de Besancon (France); MA, BA, Manchester University (England)
 LILLIAN SZKLARCZYK: PhD, University of Pennsylvania; MA, Middlebury College; BA, Hunter College
 KAY S. WILKINS: PhD, BA, University of Southampton (England)

GERMAN AND RUSSIAN

WALTER L. HEILBRONNER: PhD, MA, BA, University of Michigan
 CARL D. LINDBLOM: PhD, Rutgers The State University; MA, BM, University of Rochester
 JOHN V. MOORE: PhD, MA, Princeton University; AB, Harvard College
 ERNESTINE SCHLANT: PhD, MA, BA, Emory University
 CAROLINE SCIELZO: PhD, MA, New York University; BA, Barnard College
 ROBERT SOFFER: MA, Columbia University; MA, Teachers College, Columbia University; BA, New York University

HEALTH PROFESSIONS

RUTH C. BLANCHE: EdD, Columbia University; MA, BA, Seton Hall; RN, Monmouth Medical Center
 ANIMA DAS: EdD, Columbia University; MPH, Michigan University; BS, Delhi University (India)
 MICHAEL S. DAVIDSON: EdD, Med, MA, Columbia University; BA, Brown University
 HARRY H. HOITSMA: EdD, MA, BS, New York University

C. DaCOSTA HUNTE: MA, New York University; BA, Jersey City State College
 MARK A. KAELEN: MA, BA, Montclair State College
 JOAN FICKE LASALA: EdD, MA, New York University; BA, Montclair State College
 CATHERINE J. PASKERT: PhD, University of Utah; MA, Columbia University; BS, Panzer College
 JOHN G. REDD: PhD, MA, University of Michigan; BS, Ohio State University
 REZA B. SHAHROKH: PhD, MS, BS, Southern Illinois University
 ROBERT H. WHITMORE: EdD, Columbia University; MEd, University of Virginia; BS, Lynchburg College

HISTORY

RICHARD J. BARKER: PhD, MA, Duke University; BA, University of Rochester
 ROBERT R. BECKWITH: PhD, MA, Columbia University; BA, Montclair State College
 JOHN T. BELL: MA, BA, Montclair State College
 GEORGE C. BRETHERTON: PhD, MA, BS, Columbia University
 PHILIP S. COHEN: PhD, MA, BS, New York University; Degre Supérieur, University of Paris
 JAMES P. KEENEN, III: EdD, Columbia University; MA, BA, Montclair State College
 PETER F. MACALUSO: PhD, New York University; MA, Seton Hall; BA, St. Bonaventure University
 JOSEPH T. MOORE: EdD, BS, Rutgers The State University; MA, Montclair State College
 LOIS A. MORE: EdD, Columbia University; MA, BA, Montclair State College
 J. KENNETH OLENIK: PhD, MA, Cornell University; MA, Seton Hall University; BSSS, John Carroll University
 PETER PASTOR: PhD, MA, New York University; BS, CCNY
 HELEN ROYER: PhD, Pennsylvania State University; MA, BA, Bucknell University
 JOEL SCHWARTZ: PhD, MA, BA, University of Chicago
 AMY SREBNICK: PhD, SUNY at Stony Brook; MA, BA, University of Mexico
 L. SHARON WYATT: PhD, University of Florida; MA, BA, University of Mexico
 LOUIS B. ZIMMER: PhD, MA, New York University; BS, SUNY at Cortland

HOME ECONOMICS

HUBERTA D. ALCARO: MS, Purdue University; BA, Western Washington State College
 JOAN D. BERNSTEIN: EdD, Columbia University; MA, CUNY; BA, Queens College
 ROBERTA BRAUSE: MS, BS, Hunter College
 MARJORIE R. DOREMUS: PhD, Ohio State University; MS, University of Washington; BS, Florida State University
 M. ELAINE FLINT: PhD, Pennsylvania State University; MS, Southern Illinois University; BA, Western Kentucky University
 CHARLOTTE FRASCO: PhD, Rutgers The State University; MS, Purdue University; BS, University of Massachusetts
 LOIS J. GUTHRIE: MS, Purdue University; BS, West Virginia University
 KATHARINE B. HALL: PhD, Pennsylvania State University; MS, University of Tennessee
 JUANITA HUDSON: MA, Columbia University; BS, University of Illinois
 VIJAY JAISINGHANI: PhD, MA, Iowa State University; BS, BEd, Delhi University (India)
 ELIZABETH P. KELLEY: MA, New York University; BS, Maryville College; Professional Diploma, Columbia University
 BARBARA LITWORNIA: PhD, MS, Rutgers The State University; BA, Douglass College

VIVIAN D. MORRIS: PhD, George Peabody College; MS, BS, Alabama A&M University
 MARGARET R. MUKHERJEE: PhD, Rutgers The State University; MA, Michigan State University; BS, Cornell University
 N. CATHERINE NORRIS: EdD, New York University; BS, MS, University of Tennessee
 MIRIAM G. SILVER: MA, Bank Street College of Education; BA, Douglas College

INDUSTRIAL EDUCATION AND TECHNOLOGY

ROBERT BROWNING: EdD, MA, Columbia University; BS, SUNY at Oswego
 ROBERT F. DORNER: EdD, New York University; MA, Montclair State College; BS, Trenton State College
 ARTHUR W. EARLE: EdD, Columbia University; MA, Montclair State College; BS, Newark State College
 HARRISON GOODALL: EdD, New York University; MA, Ball State University; BS, Trenton State College
 MARTIN T. GREENWALD: EdD, New York University; MS, CCNY; BS, BA, New York University
 DEBORAH HEALY: MFA, Syracuse University; MA, Montclair State College; BA, College of New Rochelle
 GEORGE A. OLSEN: EdD, New York University; MA, Montclair State College; BS, Newark State College
 WINFIELD L. PARSONS IV: MA, Texas A & M University; BS, California State College (PA)
 GLEN E. REHORN: EdD, MS, BS, Oklahoma State University
 FRED D. SCHUMM: EdD, New York University; MA, Montclair State College; BS, Newark State College
 RAYMOND C. VAN BENSCHOTEN: EdD, EdM, BS, Rutgers The State University
 VINCENT J. WALENCIK: EdD, Rutgers The State University; MA, BS, Montclair State College

LINGUISTICS

ALICE F. FREED: PhD, MA, BA, University of Pennsylvania
 ROBERT L. MILLER: PhD, MA, University of Michigan; BA, Wayne State University
 MILTON S. SEEGMILLER: PhD, MA, New York University; BA, Brooklyn College
 JANET SUSI: MA, Columbia University; MA, Middlebury College; BA, Douglass College

MANAGEMENT

KEVIN McSHEA: MBA, Baruch College; BA, Seton Hall University
 BYUNG K. MIN: PhD, Pennsylvania State University; MBA, SUNY at Albany; BA, Seoul National University
 SHASHI K. SHAH: MBA, BS, Brigham Young University
 HERBERT SHERMAN: MS, Polytechnic Institute of New York; BA, City College of New York
 ANDREW A. TAAFFE: MBA, BS, New York University
 JOHN H. TURNER: PhD, MBA, Baruch College/CUNY; BS, Fairleigh Dickinson University

MARKETING

RALPH A. DIPIETRO: PhD, New York University; MBA, BBA, Baruch College
 STANLEY FREIMARK: MBA, New York University; BBA, Baruch College
 AUSTIN HOFFMAN: MBA, New York University; MPH, Columbia University; MS, Stevens Institute of Technology; BA, BS, Upsala College

REZA PARS: MBA, BS, Fairleigh Dickinson University
 RICHARD PLANK: MBA, Seton Hall; BS, St. Peter's College
 ALLEN J. SIMONSON: JD, AB, Rutgers The State University; MBA, Seton Hall
 BARBARA STERN: PhD, CUNY; MA, Hunter College; BA, Cornell University
 ELMER E. WATERS: PhD, Baruch College/CUNY; MBA, Rutgers The State University; BS, Columbia University

MATHEMATICS AND COMPUTER SCIENCE

PHILIP H. ANDERSON: MS, Purdue University; BS, MA, University of Notre Dame
 MODRIS O. BAUM: PhD, MS, New York University; BA, Rutgers The State University
 EDWARD A. BOYNO: PhD, MS, Rutgers The State University; BA, St. Peter's College
 CARL E. BREDLAW: PhD, MS, BA, Rutgers The State University
 THOMAS F. CARROLL: MA, Rutgers The State University; MAT, BS, Tulane University
 WINCHUNG A. CHAI: PhD, Polytechnic Institute of Brooklyn; MS, New York University; BA, Wittenberg University
 ANDREW DEMETROPOULOS: PhD, Stevens Institute of Technology; MS, MA, New York University; BA, Rutgers The State University
 THOMAS F. DEVLIN: PhD, MA, Catholic University; BA, LaSalle College
 ROBERT GARFUNKEL: MA, Montclair State College; BA, Rutgers The State University
 CARL GOTTSCHALL: PhD, JD, New York University; MS, Yeshiva University; BA, CUNY
 GEORGE H. GUGEL: MS, SUNY at Oneonta; BA, Hartwick College
 KENNETH KALMANSON: PhD, CUNY; BS, Brooklyn College
 PATRICIA KENSCHAF: PhD, MA, University of Pennsylvania; AB, Swarthmore College
 WILLIAM G. KOELLNER: MA, BA, Montclair State College
 MARCOANTONIO LACATENA: MA, Montclair State College; BS, Fairleigh Dickinson University
 LINDA C. LEAVY: MSc, Wollongong University; BA, Rutgers The State University
 AUDREY J. LEEF: EdD, Rutgers The State University; MS, Stevens Institute of Technology; BA, Montclair State College
 EVAN M. MALETSKY: PhD, New York University; MA, BA, Montclair State College
 GIDEON NETTLER: MS, Polytechnic Institute of Boston; BS, Rensselaer Polytechnic Institute
 WILLIAM R. PARZYNSKI: PhD, MS, BS, Stevens Institute of Technology
 HELEN MARCUS ROBERTS: PhD, Johns Hopkins University; BS, CCNY
 MAX A. SOBEL: PhD, MA, Columbia University; BS, Montclair State College
 JOHN G. STEVENS: PhD, New York University; BS, Indiana University
 RUTH C. STEWART: EdD, MA, BA, Rutgers The State University; MA, Columbia University
 JAMES H. STODDARD: PhD, BS, University of Michigan
 WALTER R. WESTPHAL: MA, University of Illinois; MA, Columbia University; BS, SUNY at Buffalo
 THOMAS E. WILLIAMSON, JR.: PhD, Rutgers The State University; BS, University of Maryland
 DOROTHY R. WOLFF: PhD, New York University; MA, BA, Montclair State College
 KENNETH C. WOLFF: PhD, New York University; MA, Pennsylvania State University; BA, Montclair State College

PHILIP W. ZIPSE: PhD, Rutgers The State University; MS, University of Akron, BS, DePaul University

MUSIC

MARDEN BATE: MA, Columbia University, BM, Manhattan School of Music
 EDMUND BATTERSBY: MM, BM, Juilliard School of Music
 DONALD BUTTERFIELD: Diploma, Juilliard School of Music
 ELLEN CANTER: BM, Boston University
 BRENDA MILLER COOPER: MA, Columbia University; Prof. Dip., Juilliard Graduate School of Music; BS, Western Reserve University
 JOHN L. GIRT: MFA, BFA, Carnegie-Mellon University
 KAREN GOODMAN: MS, Hunter College; BA, University of Wisconsin
 HOWARD GREENBLATT: MA, Hofstra University; BA, Queens College
 TING HO: PhD, University of Rochester; MA, Kent State University; BA, Bucknell University
 LEON HYMAN: MS, Juilliard School of Music; BA, Queens College
 JEROME L. LANDSMAN: DMA, MM, University of Southern California; BM, University of Rochester
 BETTY LIST: MA, BA, Montclair State College
 DONALD M. MINTZ: PhD, BA, Cornell University; MFA, Princeton University
 MARIO F. ONEGLIA: EdD, MA, Professional Diploma, Columbia University; BM, Manhattan School of Music
 MURRAY PRESENT: BM, Michigan State University; Diploma, Juilliard School of Music
 DAVID RANDOLPH: MA, Columbia University; BS, CCNY
 OSCAR RAVINA: Diploma, Leningrad Conservatory of Music; Diploma, Bruckner Conservatory of Music; Diploma, Academy of Music in Salzburg; Diploma, Academy of Music in Vienna
 RUTH RENDLEMAN: MM, Manhattan School of Music; BM, North Carolina School of Arts
 KAREN GOODMAN: MS, Hunter College; BA, University of Wisconsin
 JACK SACHER: EdD, MA, Columbia University; BA, Middlebury College
 WILLIAM SHADEL: MM, Manhattan School of Music; BA, Montclair State College
 ROBERT STEPHENS: EdM, MA, Columbia University; BS, Savannah State College
 DANIEL WERTS: MFA, BA, Princeton University
 BARBARA L. WHEELER: MM, Florida State University; BM, Hastings College
 THOMAS WILT: MM, BM, University of Rochester
 CHAIM ZEMACH: Diploma, Cologne University (Germany); Diploma, Accademia Chigiana (Italy)

PHILOSOPHY AND RELIGION

KENNETH AMAN: PhD, Yale University; MA, Fordham University; MTh, BD, Maryknoll Seminary; BA, Maryknoll College
 DAVID BENFIELD: PhD, MA, Brown University; BA, St. John's College
 THOMAS BRIDGES: PhD, MA, Columbia University; BA, New York University
 EVA FLEISCHNER: PhD, Marquette University; MA, University of Notre Dame; BA, Radcliffe College
 STEPHEN JOHNSON: PhD, MPhil, Yale University; MA, Marquette University; BA, Spring Hill College
 MICHAEL S. KOGAN: PhD, BA, Syracuse University
 MATTHEW LIPMAN: PhD, BS, Columbia University

ADELE McCOLLUM: PhD, MA, BS, Syracuse University
 WILLIAM L. STANTON: PhD, MA, Princeton University; BA, Stanford University
 ROBERT F. STREETMAN: PhD, Drew University; STM, Pacific School of Religion; BD, Duke Divinity School; BA, Millsaps College

PHYSICAL EDUCATION

REE K. ARNOLD: EdD, Columbia University; MEd, Miami University; BS, Valparaiso University
 VIRGINIA A. CROSSMAN: MA, Columbia University; BS, Boston University
 DOMENICA DESIDERIOSCIOLI: MS, BS, Brooklyn College
 HENRY M. FERRIS: MA, New York University; BA, Syracuse University
 ROB GILBERT: PhD, BA, University of Massachusetts
 GEORGE A. HORN: EdD, MA, New York University; BS, Albright College
 LEONARD K. LUCENKO: PhD, University of Utah; MA, New York University; BA, Temple University
 GAIL REIKEN: MS, Pennsylvania State University; BS, Brooklyn College, CUNY
 JOAN SCHLEEDE: BS, MA, EdD, New York University
 TIMOTHY F. SULLIVAN: MS, Ithaca College; BS, SUNY at Cortland
 MARILYN TAIGIA: MA, Columbia University; BS, Panzer College
 RICHARD W. TEWS: PhD, New York University; MA, State University of Iowa; BS, LaCrosse State Teachers College
 JOSEPH TOTH: EdD, Colorado State College; MEd, Kent State University; BS, University of Akron

PHYSICS/GEOSCIENCE

MARY A. DERENGOWSKI-STEIN: PhD, Columbia University; BA, College of Our Lady of the Elms
 VICTORIA P. FILAS: MA, BA, Montclair State College
 IMAD E. HAMDAN: MAT, BS, Fairleigh Dickinson University
 CHARLES L. HAMILTON: PhD, Virginia Polytechnic Institute; MA, Dartmouth College; BA, Lehigh University
 RICHARD H. HODSON: MA, Montclair State College; BS, Trenton State College
 FRANK S. KELLAND: MA, Clark University; BEd, Keene State College
 LUDWIK KOWALSKI: PhD, University of Paris; MS, BS, Polytechnic Institute of Warsaw
 STEPHEN W. KOWALSKI: PhD, MA, New York University; BS, Fairleigh Dickinson University
 WILLIAM H. MAK: PhD, BS, Rensselaer Polytechnic Institute
 BEN MINOR: MEE, BS, City College of New York; IE, Columbia University; PE, State of New Jersey
 ROBERT C. RAMSDELL: MA, Princeton University; MS, Rutgers The State University; BA, Lehigh University
 JOHN V. THIRUVATHUKA: PhD, Oregon State University; MS, Michigan State University; BS, St. Louis University
 MARY L. WEST: PhD, Columbia University; MS, BA, Cornell University

POLITICAL SCIENCE

HARRY BALFE, II: JD, Catholic University; MA, American University; BA, Trinity College
 WILLIAM M. BATKAY: PhD, MA, Columbia University; BA, Fordham University

WILLIAM S. BERLIN: PhD, Rutgers The State University; MA, George Washington University; BA, Brooklyn College
 GILBERT O. HOURTOULE: PhD, Pennsylvania State University; MA, Stanford University; BA, Montclair State College
 EDWARD W. JOHNSON: PhD, New York University; MA, New School for Social Research; BA, Rutgers The State University
 LUCINDA LONG: PhD, MA, Johns Hopkins University; BA, Mary Washington College
 GEORGE T. MENAKE: PhD, New York University; MA, St. John's University; BA, St. Peter's College
 CHARLES M.B. UTETE: PhD, MA, Carleton University; MA, Tufts University; BS, University of London
 GEORGE N. ZILBERGELD: PhD, Miami University; MA, San Francisco State University; BA, Rutgers The State University

PSYCHOLOGY

EDWARD ARONOW: PhD, MA, Fordham University; BA, Queens College
 IRWIN J. BADIN: PhD, New York University; BA, Long Island University
 MARTIN BROWN: EdD, Rutgers The State University; MA, Columbia University; BS, CUNY
 LEONARD J. BUCHNER: PhD, Columbia University; BA, Montclair State College
 JOAN CHEU: PhD, MA, Teachers College, Columbia University; BA, National Taiwan University
 RICHARD D. DRAPER: PhD, MS, Purdue University; BA, Kalamazoo College
 WALTER R. DURYEA: PhD, Florida State University; MA, University of Connecticut; BA, Rutgers The State University
 KATHERINE W. ELLISON: PhD, City University of New York; BA, Agnes Scott College
 MARK J. FRIEDMAN: PhD, MS, Purdue University; BA, Colgate University
 STEPHEN M. FRIEDMAN: PhD, MA, University of California; BA, College of William and Mary
 MARGARITA GARCIA: PhD, MA, BS, Columbia University
 VICTOR GARIBALDI: MA, Yeshiva University; MA, New York University; BS, CUNY
 ROBERT GOODKIN: PhD, Florida State University; BA, Allegheny College
 HERBERT J. HAUER: PhD, New York University; MA, Columbia University; BA, New York University
 EDWARD J. HAUPT: PhD, New York University; BAE, University of Minnesota
 THERESE M. HERMAN: PhD, MA, New School for Social Research; BA, New York University
 CHRISTINE D. HOOVER: PhD, MS, BA, Fordham University
 BERTRAM A. JOHN: PhD, Rutgers The State University; BA, Long Island University
 MARK A. KOPPEL: PhD, MA, Northwestern University; BA, Columbia University
 MOIRA K. LEMAY: PhD, MS, Pennsylvania State University; BS, Queens College
 PAUL J. LOCHER: PhD, MS, Temple University; BS, Ed, Kutztown State College
 AGNES O'CONNELL: PhD, MS, Rutgers The State University; AB, Douglass College
 SHARON OLSON: PhD, MA, New School for Social Research; BA, DePauw University
 THOMAS BIDDLE PERERA: PhD, MA, AB, Columbia University
 GEORGE S. ROTTER: PhD, New York University; BA, Brooklyn College
 JEROLD S. SCHWARTZ: PhD, MA, Yeshiva University; BA, University of Pennsylvania
 JOHN SEYMOUR: PhD, MA, New York University; BS, William Paterson College

ROLAND J. SIITER: PhD, Purdue University; MA, Xavier University; BA, Northwestern University
 IRA R. SUGARMAN: PhD, MS, Columbia University; BA, New York University
 DAVID J. TOWNSEND: PhD, MA, Wayne State University; BA, University of Michigan
 RHODA K. UNGER: PhD, MA, Harvard University; BS, Brooklyn College
 DANIEL E. WILLIAMS: PhD, MS, St. John's University; BA, Seton Hall University
 PETER F. WORMS: EdD, Rutgers The State University; MS, BBA, City College of New York

RECREATION PROFESSIONS

HAROLD J. NOLAN JR: PhD, University of Utah; MA, Montclair State College; BA, J.F. Kennedy College
 WAYNE R. MILLER: PhD, University of Maryland; ReDir, MS, Indiana University; BS, University of Maryland
 SUSAN A. WESTON: MA, Montclair State College; BS, Russell Sage College

SOCIOLOGY

DAVID ALLOWAY: PhD, New York University; MA, Columbia University; BA, Muhlenberg College
 BARBARA CHASIN: PhD, University of Iowa; BA, CCNY
 PETER FREUND: PhD, New School for Social Research; MA, Queens College; BA, University of Maryland
 LAURA GORDON: PhD, MA, SUNY at Stony Brook; BA, University of Michigan
 BENJAMIN HADIS: PhD, MA, University of California at Los Angeles; Licenciatura, University of Buenos Aires
 BYONG-SUH KIM: PhD, Emory University; MTh, Princeton Theological Seminary; BA, Eckerd College
 GILBERT KLAJMAN: MA, Brandeis University; BA, Brooklyn College
 JAY LIVINGSTON: PhD, Harvard University; BA, Brandeis University
 GEORGE MARTIN: PhD, MA, University of Chicago; BA, Vanderbilt University
 MEREDITH MCGUIRE: PhD, MA, New School for Social Research; BA, Eckerd College
 SAMUEL PRATT: PhD, University of Michigan; MA, Michigan State University; BS, University of Connecticut
 GILBERT ZICKLIN: PhD, MA, University of California, Davis; BA, Columbia University

SPANISH/ITALIAN

CLARA L. BARBEITO: *Doctor en Filosofia y Letras*, Havana University
 ITALO BATTISTA: MA, Rutgers The State University; BA, CCNY
 VINCENZO Z. BOLLETTINO: PhD, MA, Rutgers The State University; BA, City College, CUNY
 JOANNE ENGELBERT: PhD, New York University; MA, Middlebury College; BA, Adelphi College
 NORMAN H. FULTON: PhD, Licentiate University of Madrid; EdM, University of Rochester; BA, Central Missouri State College
 MARILYN FRANKENTHALER: PhD, Rutgers The State University; JD, Seton Hall University; MA, Hunter College; BA, CCNY
 JOHNG HWANG: PhD, MA, University of Oregon; MA, BA, Stanford University
 LINDA G. LEVINE: PhD, MA, Harvard University; BA, New York University
 ROBERT J. MCCORMICK: PhD, CUNY; MA, Queens College; BA, St. John's University
 ROSE S. MINC: PhD, MA, Rutgers The State University; BA, Douglass College

PAOLO POSSIEDI: *Dottore lettere* University of Padua (Italy)
 ANA M. RAMBALDO: PhD, MA, New York University; BA, Southern Methodist University
 HENRY RICHARDS: MA, BA, Columbia University
 JANET SUSI: MA, Columbia University; MA, Middlebury College; BA, Douglass College
 JOHN A. ZAHNER: PhD, MA, University of Arizona; BA, Toledo University

SPEECH AND THEATER

JOSEPH F. BELLA: MFA, Catholic University; BFA, Carnegie-Mellon University
 DORIS B. BIANCHI: MA, MEd, Columbia University; BS, Syracuse University
 WAYNE BOND: PhD, Southern Illinois University; MA, West Virginia University; AB, Alderson-Broadbent College

RAMON L. DELGADO: PhD, Southern Illinois University; MFA, Yale School of Drama; MA, Dallas Theatre Center (Baylor); BA, Stetson University
 FANNIS B. EATON: MA, Columbia University; BA, Ball State University
 JOHN A. FIGOLA: MFA, Carnegie-Mellon University; BS, California (PA) State College
 EMERY J. HERMANS: Certificate, Nikolais School of Dance
 W. SCOTT MacCONNELL: MA, Columbia University; BA, Amherst College
 CLYDE W. McELROY: EdD, University of Virginia; MA, BA, Baylor University
 DIANNE McPHEARSON: BFA, Juilliard School
 KARL P. MOLL: MA, Pennsylvania State University; AB, Westminster College
 GERALD LEE RATLIFF: PhD, Bowling Green State University; MA, University of Cincinnati; BA, Georgetown University

LINDA J. ROBERTS: MA, Columbia University; BA, University of Bridgeport
 DEBORAH S. ROBERTSON: MA, Columbia University; BFA, University of Utah
 JEROME ROCKWOOD: PhD, New York University; MA, Western Reserve University; BA, Brooklyn College
 ANN G. SEIDLER: PhD, MA, New York University; BA, Smith College
 DONALD E. SOBOLIK: MA, BA, University of Nebraska
 CHRISTOPHER STASHEFF: PhD, University of Nebraska; MA, BA, University of Michigan
 SUZANNE M. TRAUTH: PhD, MA, Bowling Green State University; BS, University of Dayton
 HOWARD P. TRAVIS: PhD, MA, BA, University of Michigan



INDEX

About the College.....	1	FINE ARTS.....	63
Academic Advisement.....	13	Foreign Student Admission.....	6
Academic Calendar.....	iv	FRENCH.....	76
Academic Standards and Procedures.....	13	Furlough.....	15
ACCOUNTING LAW AND TAXATION.....	21	General Education Requirements.....	18
Accreditation and Membership.....	2	General Humanities.....	175
Activities, Student Affairs and.....	4	GEOGRAPHY/URBAN STUDIES.....	58
Administrative Sciences.....	2	GEOSCIENCE AND PHYSICS.....	135
Admissions.....	5	GERMAN AND RUSSIAN.....	80
Adult Continuing Education.....	11	Goals.....	2
Advanced Placement.....	13	Governance.....	2
Advisement.....	13	Grades and Standards.....	15
Afro-American Studies.....	9, 175	Graduate Credit Courses (Undergraduate).....	4, 15
Alumni Association.....	10	Graduation Honors.....	15
ANTHROPOLOGY.....	22	HEALTH PROFESSIONS.....	83
Archaeology Minor.....	9, 175	Health Services.....	11
Athletics.....	10	HISTORY.....	87
Attendance.....	13	History of the College.....	1, 2
Audit Policy.....	14	HOME ECONOMICS.....	91
Basic Skills.....	6, 14	Honors List.....	15
BIOLOGY.....	25	Housing.....	11
Black Student Cooperative Union.....	4	Humanities and Social Sciences, School of.....	3
Board of Trustees.....	179	Human Relations Organization.....	5
Business, Administration, School of.....	2	Independent Study.....	16
BUSINESS EDUCATION AND OFFICE SYSTEMS		INDUSTRIAL STUDIES.....	97
ADMINISTRATION.....	2, 29	International Education, Center for.....	9
Calendar.....	iv, 6	Intra-Collegiate Programs.....	9
Campus Employment.....	11	ITALIAN AND SPANISH.....	157
Cancellation of Courses and Staffing.....	14	La Campana.....	5
Career Services.....	11	Latin American Student Organization.....	5
Center for Adult Continuing Education.....	11	LAW, ACCOUNTING AND TAXATION.....	21
Center for International Education.....	9	Leave of Absence.....	16
CHEMISTRY.....	34	Library.....	11
CLASSICS.....	37	LINGUISTICS.....	102
Class One Concerts.....	4	Major Declaration.....	16
Class Standing.....	14	MANAGEMENT.....	105
CLEP.....	14	MARKETING.....	107
College Administrative.....	179	MATHEMATICS AND COMPUTER SCIENCES.....	109
College Life Union Board.....	4	Mathematics and Natural Sciences, School of.....	3
Communication Requirements.....	18	Media Center.....	11
COMMUNICATION SCIENCES AND DISORDERS.....	40	Memorial Auditorium.....	12
Computer Services Center.....	11	Minor.....	18
COMPUTER SCIENCE AND MATHEMATICS.....	109	Minorities Culture Requirement.....	19
CONSERVATION, NEW JERSEY SCHOOL OF.....	42	Montclarion, The.....	5
Cooperative Education.....	9, 175	MUSIC.....	113
Council on International and National Affairs.....	4	NEW JERSEY SCHOOL OF CONSERVATION.....	42
COUNSELING, HUMAN SERVICES AND GUIDANCE.....	43	Office of Student Affairs.....	12
Course Loads.....	14	Panzer Gymnasium.....	12
Course Overlap.....	14	Panzer School Council.....	12
Credit by Examination and Experience.....	14	Paralegal Studies.....	9, 176
Credit For Life Experience.....	15	Parking.....	12
CURRICULUM AND TEACHING.....	44	Part-time Admission.....	6
Degree Programs.....	2	Part-time Bachelor's Degree Program.....	3
Degree Requirements.....	18	PHILOSOPHY/RELIGION.....	124
Dismissal.....	15	PHYSICAL EDUCATION.....	129
ECONOMICS.....	46	Physical Education Requirement.....	19
EDUCATIONAL FOUNDATIONS.....	49	PHYSICS/GEOSCIENCE.....	135
Educational Opportunity Fund.....	6, 9	Plagerism.....	16
EDUCATIONAL LEADERSHIP.....	50	Players.....	5
Employment on Campus.....	11	POLITICAL SCIENCE.....	142
English.....	52	Privacy Act.....	16
ENVIRONMENTAL, URBAN AND GEOGRAPHIC		Probation.....	16
STUDIES.....	58	Professional Studies, School of.....	3
Expenses, Student.....	8	Psycho-Educational Center.....	12
Facilities and Service.....	10	Psychological Counseling.....	12
Faculty.....	180	PSYCHOLOGY.....	144
Fees and Tuition.....	7	Quarterly.....	5
Final Evaluation (Graduation).....	15	RECREATION AND LEISURE STUDIES.....	149
Final Examinations.....	15	Refund and Withdrawal Policies.....	17
FINANCE AND QUANTITATIVE METHODS.....	61	Registration.....	16
Financial Aid for Students.....	8	RELIGION/PHILOSOPHY.....	124
Financial Support for the College.....	2	Religious Facilities and Programs.....	12
Fine and Performing Arts, School of.....	2	Remediation Programs.....	12
		Repeated Courses.....	16

Requirements, Admission.....	5
Requirements, Degree.....	18
Residence Requirements.....	16
Retention Standards.....	16
ROTC.....	12, 177
RUSSIAN AND GERMAN.....	80
Safety and Security.....	13
Scholarships and Awards.....	8
Second Baccalaureate Degree.....	6
Second Careers.....	9
Services and Facilities.....	10
SOCIOLOGY.....	153
SPANISH AND ITALIAN.....	157
Special Fees.....	7
Special Programs.....	175
SPEECH AND THEATER.....	164
Student Affairs and Activities.....	4, 12
Student Center.....	13
Student Government Association.....	4
Student Intermural and Leisure Council.....	5
Student Responsibility.....	16

Student Services.....	10
Summer Sessions.....	4, 16
Suspension.....	17
TEACHING AND CURRICULUM.....	44
THEATER AND SPEECH.....	164
Transcripts.....	17
Transfer Admission Process.....	6
Transfer Credit.....	17
Tuition and Fees.....	7
Undergraduate in Graduate Programs.....	4
Undergraduate Programs.....	2
Upward Bound.....	9
URBAN STUDIES/GEOGRAPHY.....	58
Veteran's Credit.....	13, 17
Weekend College.....	10
Winter Session.....	10
Withdrawal from courses.....	7, 17
Withdrawal from college.....	17
WMSC.....	5
Women's Center.....	13
Women's Studies Minor.....	10, 178



Directions To Montclair State College Campus

Recommended Travel Routes. MSC is on Valley Road and Normal Avenue, Upper Montclair (turn at the light). The college is one mile south of the junction of Routes 3 and 46 on Valley Road.

BY CAR FROM:

Bloomfield Ave., Montclair: North on Valley Road (by fire department), 3.3 miles to Normal Ave. light, turn left.

Route 46 (East and West): Valley Road, Montclair exit (at Route 3 junction), south for approximately one mile to Normal Avenue light, turn right.

Route 3: Valley Road, Montclair exit (at Route 46 junction), south for approximately one mile to Normal Ave. light, turn right.

Garden State Parkway North: Exit 153B (left lane) to Route 3 West, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right.

Garden State Parkway South: Exit 154 to Route 46 West, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right.

New Jersey Turnpike: Exit 16W to Route 3, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right. Motorists traveling on the Turnpike South to Exit 11 may exit there to Garden State Parkway North.

Lincoln Tunnel: Follow To Rte. 3.

George Washington Bridge: Route 80 to Garden State Parkway South.

BY PUBLIC TRANSPORTATION FROM:

New York (by bus): DeCamp Bus No. 66 leaves Platform 73, Port Authority Bus Terminal at half past the hour. Get off at Mt. Hebron and Valley Roads, turn right (north) on Valley and walk one long block to Normal Avenue traffic light, then turn left to campus entrance.

New York City (by train): Take PATH service to Hoboken, transfer to Conrail, and get off at Montclair Heights Station at southwest corner of campus.

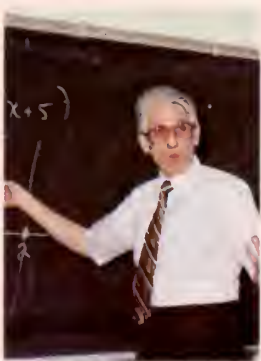
Newark: Transport of New Jersey Bus No. 60 originates at Bamberger's, Market and Washington Streets and terminates its run on campus. Every 17 minutes.

The Oranges: Trackless Transit Bus No. 64 originates at Veterans Administration Hospital, Tremont Avenue, East Orange, travels along main streets in the Oranges to Bloomfield Avenue, Montclair. Change to No. 60 at Montclair Center. Once an hour.

Paterson: Transport of New Jersey Bus No. 128 originates at Broadway Terminal, Paterson and goes to Bloomfield. Change to No. 60 at Bloomfield Center. Every 45 minutes.



MONTCLAIR STATE COLLEGE



UNDERGRADUATE

CATALOG

1984-1986



Montclair State College at a Glance

Location:

200-acre campus, at the intersection of Valley Road and Normal Avenue, Upper Montclair, New Jersey (Essex County), one mile south of intersection of Valley Road and Route 46. Main entrance on Normal Avenue.

Background:

Established in 1908, and is a state-supported, coeducational, four-year college of liberal arts and sciences. Has offered Master of Arts programs since 1930s and the Master of Business Administration since 1981.

Enrollment:

About 11,600 undergraduates and 3,300 graduate students in 1983. Students come from all New Jersey counties, from other states, and from foreign countries. Some 2,000 live on campus with the remainder living in off-campus accommodations or commuting from home.

Faculty:

The college has 472 full-time faculty members. About 75 percent have terminal degrees. Ratio of faculty to students is 1 to 17.

Accreditation:

Accredited by the Middle States Association of Colleges and Schools, and by the National Council for the Accreditation of Teacher Education.

Degrees Offered:

Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, Master of Arts, and Master of Business Administration.

Facilities:

Ten major academic buildings, student center building, library, gymnasium, playing fields, administration building, and housing for 2,000 students in residence halls and apartments.

Costs:

Annual tuition and fees (1983-84): \$1,340. Annual room and board: \$3,264.

Financial Aid:

Some form of aid is provided to approximately 60 percent of qualified full-time students. Aid is available as loans, scholarships, grants, and employment.

Montclair State College is an Equal Opportunity/Affirmative Action institution. In compliance with relevant federal and state civil rights legislation, the college does not discriminate on the basis of sex, race, color, religion, national origin, age, or physical capability in the operation of its educational program or activities (admission, access to programs and course offerings, physical education, competitive and intramural athletics, counseling, student and other employment, use of facilities, and college sponsored extracurricular activities.)

Inquiries relating to equal opportunity/affirmative action issues may be directed to the offices of Student Affairs or Equal Opportunity/Affirmative Action.

The Undergraduate Catalog of Montclair State College is published biennially and presents announcements of general information, general academic regulations, and the College's academic program extant at the date of publication. The College reserves the right to change any of its announcements, regulations or requirements at any time without notice or obligation. The Office of Academic Affairs is responsible for the preparation of the content of this publication.

Undergraduate Catalog 1984-1986

Admissions

203 College Hall
(201) 893-4444

Financial Aid

321 College Hall
(201) 893-4461

Registrar

204 College Hall
(201) 893-4376

Residence Facilities

401 Bohn Hall
(201) 893-4156, 5252

Statement on the Undergraduate Program

The Board of Trustees of Montclair State College reaffirms its belief that the liberal arts and sciences form the essential basis of an undergraduate program of higher education.

In an era of decreasing resources, diminished public support, and increased popular interest in vocationalism, there are strong pressures to succumb to temporary concerns, and in doing so to lose sight of the enduring and essential purpose of a college education. There are also economic and political forces which, if not constrained by thoughtful response, threaten the integrity of academic processes and the quality of academic standards of institutions of higher education everywhere.

The Board of MSC believes that the College has the special purpose of contributing to, critically examining, preserving and transmitting the culture of our society to succeeding generations, and that the protection of this purpose is the public trust for which we are primarily responsible. We believe that the progress of the College towards this goal has been exemplary, and in particular we applaud the steps already taken by the faculty and administration to maintain and enhance these values. Consistent with the policy and planning function of the Board, however, we believe that faculty and administration efforts might be enhanced by an understanding of what the Board sets forth as a vision of the undergraduate program by 1990. By that time, based upon the work of the faculty and administration, we hope to see:

1. a rigorous and comprehensive program of general education required of all students which includes not only advanced learning skills and preparation for effective citizenship, but which also fosters an appreciation of a shared human heritage leading to the enhancement of the quality of both personal and community life;
2. an enrollment reflecting a balance between those students majoring in liberal arts programs, and those in professional and career programs which in addition to their own strengths, are soundly rooted in and related to the strengths of our liberal arts departments;
3. support programs which assist underprepared students who share our goals to meet the demanding standards of which we think they are capable if suitably challenged, excited and educated;
4. ongoing processes of program review and evaluation in which the joint efforts of faculty, administration and Board ensure maintenance of the highest standards of quality;
5. a diverse student body reflecting different cultural and social backgrounds, but united by a common commitment to the academic values for which the College stands;
6. programs which strengthen the efforts of an able and dedicated faculty and which support the scholar's continuing need for intellectual and personal renewal.

In setting these general goals, the Board recognizes the difficult economic and political environment likely to face higher education in the future, and that many other institutions have chosen to confront these challenges in a manner different from our own. We believe, however, that the need to create a distinctive mission and climate for the College and to prepare students fully for an uncertain but clearly difficult future requires us to make this commitment.

It is the Board's intent to view its future consideration of new policies and programs within the context of this statement, and to have prepared for campus discussion a brief annual report concerning activities and progress in each of the six areas.



Table of Contents

Academic Calendar	iv
About the College	1
Degree Programs and Major Concentrations	2
Schools of the College	4
Admissions	5
Tuition and Fees	8
Financial Aid	9
Intra-Collegiate Academic Programs	9
Resources and Facilities	10
Student Affairs and Activities	13
Academic Policies and Procedures	14
Requirements for Undergraduate Degree	19
ACADEMIC PROGRAMS BY DEPARTMENTS	28
Accounting, Law and Taxation	28
Anthropology	29
Biology	31
Business Education and Office Systems Administration	35
Chemistry	40
Classics	42
Communication Sciences and Disorders	46
Counseling, Human Services, and Guidance	47
Curriculum and Teaching	48
Economics	50
Educational Foundations	52
Educational Leadership	53
English	55
Environmental, Urban and Geographic Studies	60
Finance and Quantitative Methods	63
Fine Arts	65
French	77
German and Slavic	80
Health Professions	84
History	86
Home Economics	90
Industrial Studies	95
Linguistics	99
Management	101
Marketing	103
Mathematics and Computer Science	104
Music	109
Philosophy and Religion	119
Physical Education, Recreation and Leisure Studies	122
Physics and Geoscience	133
Political Science	138
Psychology	141
Sociology	145
Spanish and Italian	149
Speech and Theatre	155
OTHER ACADEMIC PROGRAMS	163
General Humanities	163
Legal Studies	164
New Jersey School of Conservation	166
Toxicology	167
Transcultural Studies	168
Special Programs	170
Appendix of Scholarships and Awards	173
Administration and Faculty	178
Index	
Directions to Campus	

Academic Calendar

1984-86

Fall Semester 1984

August 27, 28, 29	Registration/Orientation.
August 27, 28	Evening Registration.
September 1, 2, 3	Labor Day Holiday Weekend.
September 4	Classes begin.
September 4-November 21	Classes. Classes will meet until the regular close of the course day on November 21.
November 22-25	Thanksgiving Holiday.
November 26-December 16	Classes.
December 17-23	Examination Period.
December 24-January 1	Christmas Holiday.

Winter Session 1985

December 27	Registration (Late).
January 2-18	Classes. Classes will meet on Saturdays, January 5, 12.

Spring Semester 1985

January 14, 16, 17	Registration/Orientation.
January 14, 16	Evening Registration. If the College is closed because of inclement weather during this period, the Registration Schedule moves forward by one day.
January 21-March 31	Classes.
April 1-7	Spring Recess.
April 8-May 15	Classes.
May 16-22	Examination Period.
May 23	Commencement.

Summer Sessions 1985

May 28-June 7	Pre-Session.
June 3, 4	Registration.
June 10-August 1	Eight-Week Evening Classes.
June 24-August 2	Six-Week Day Classes.
July 4	Holiday - No Classes.
August 5-16	Post-Session.

Fall Semester 1985

August 26, 27, 28	Registration/Orientation.
August 26, 27	Evening Registration.
August 31-September 1, 2	Labor Day Holiday Weekend.
September 3	Classes begin.
September 3-November 27	Classes. Classes will meet until the regular close of the course day, November 27.
November 28-December 1	Thanksgiving Holiday.
December 2-16	Classes.
December 17-23	Examination Period.
December 24-January 1	Christmas Holiday.

Winter Session 1986

December 30	Registration (Late).
January 2-23	Classes. No classes January 15.

Spring Semester 1986

January 21, 22, 23	Registration.
January 21, 22	Evening Registration. If the College is closed because of inclement weather during this period, the Registration Schedule moves forward by one day.
January 27-March 23	Classes.
March 24-30	Spring Recess.
March 31-May 20	Classes.
May 21-28	Examination Period.
May 26	Memorial Day Holiday.
May 29	Commencement.

Summer Sessions 1986

June 2-13	Pre-Session.
June 9, 10	Registration.
June 16-August 7	Eight-Week Evening Classes.
June 30-August 8	Six-Week Day Classes.
July 4	Holiday - No Classes.
August 11-22	Post-Session.

**THE COLLEGE RESERVES THE
RIGHT TO MODIFY THIS CALENDAR**

About the College

Life is a challenge!

Montclair State helps students to meet it by developing awareness, creativity, and maturity. Academic and career counselors help the student to choose a program and major that explore special interests and potential to attain the degree goal, that clarify and strengthen career directions.

The college offers a broad range of arts, sciences, and professional and business programs, and four undergraduate degrees, in Bachelor of Arts, Science, Fine Arts, or Music; graduate programs lead to the Master of Arts or Master of Business Administration degrees. The academic programs include more than forty areas of study, as well as additional interdisciplinary programs.

Current enrollment is approximately 15,000, distributed between undergraduate and graduate programs. Students come to Montclair State College from a variety of backgrounds, although most are from New Jersey, many are from other states, and countries, as well. The majority are commuters. It is easy to meet new people, make new friends, share new experiences.

The College has a faculty member for each seventeen students, and most classes are taught in groups of no more than twenty-five. All faculty are available to provide extra help and advice to students.

The suburban location fosters a warm, comfortable community, and proximity to New York City provides for unique and exciting cultural opportunities, at museums, concerts, and plays. Montclair State College itself has been designated a center for the fine and performing arts in New Jersey by the New Jersey Department of Higher Education.

Montclair State is expanding through new additions and services, including an enlarged student center, housing units, and an apartment complex, and shuttle buses to ride students from parking areas to the main campus grounds.

Since it is a state-supported institution, Montclair State College maintains low tuition and fees. Financial aid is available to qualified students in the form of loans, grants, and/or employment, amounts determined by need and funds available.

Life is a challenge. Come meet it at Montclair State College.



Degree Programs and Major Concentrations*

ADMINISTRATION AND SUPERVISION	M.A.
Educator Trainer	
ALLIED HEALTH	B.S.
ANTHROPOLOGY	B.A.
BIOLOGY	B.S., M.A.
BUSINESS ADMINISTRATION	B.S., M.B.A.
Accounting	
Finance	
Management	
Marketing	
BUSINESS ADMINISTRATION	B.S.
General Business	
Office Systems Administration	
Quantitative Methods	
Retail Merchandising and Management	
BUSINESS ADMINISTRATION	M.B.A.
Business Economics	
Quantitative Analysis	
BUSINESS EDUCATION	B.S., M.A.
Distributive Education	
CHEMISTRY	B.S., M.A.
CLASSICS	B.A.
COMMUNICATION SCIENCES AND DISORDERS	B.A.
COMMUNICATION SCIENCES AND DISORDERS	M.A.
Audiology	
Early Childhood Special Education	
Hard of Hearing and Deaf	
Learning Disabilities (Teacher-Consultant)	
Speech-Language Pathology (Correctionist)	
COMPUTER SCIENCE	B.S., M.A.
COUNSELING AND GUIDANCE	M.A.
Human Services	
ECONOMICS	B.A.

EDUCATIONAL PSYCHOLOGY	M.A.
Behaviorally Disturbed	
Human Sexuality	
ENGLISH	B.A.
ENGLISH AND COMPARATIVE LITERATURE	M.A.
ENVIRONMENTAL STUDIES	M.A.
Environmental Education	
Environmental Health	
Environmental Management	
Environmental Science	
FINE ARTS	B.A., M.A.
Art History	
Education	
Studio	
Studies in the Visual Arts	
FINE ARTS STUDIO	B.F.A.
FRENCH	B.A.
Translation	
FRENCH	M.A.
GENERAL HUMANITIES	B.A.
GEOGRAPHY	B.A.
GEOSCIENCE	B.S., M.A.
GERMAN	B.A.
HEALTH EDUCATION	B.S.
Community Health Services	
HEALTH EDUCATION	M.A.
HISTORY	B.A.
HOME ECONOMICS	B.A.
Consumer Affairs	
Family Child/Nursery School	
Fashion Studies	
Home Economics Education (Comprehensive)	
HOME ECONOMICS	B.S.
Foods and Nutrition	
Food Service Management	
HOME ECONOMICS	M.A.
Family Relations/Child Development	
Home Economics Education (Comprehensive)	
Home Management/Consumer Economics	
INDUSTRIAL EDUCATION AND TECHNOLOGY	B.S.
Industrial Studies	
INDUSTRIAL EDUCATION AND TECHNOLOGY	M.A.
ITALIAN	B.A.
LATIN	B.A.
LINGUISTICS	B.A.
MATHEMATICS	B.S.
Applied Mathematics	

*Additional minors and certification programs are offered.
Check index for reference to appropriate sections of
catalog.

MATHEMATICS	M.A.
Mathematics Education	
Pure and Applied Mathematics	
Statistics	
MUSIC	B.A.
History	
Music Education (Comprehensive)	
MUSIC	B.Mus.
Performance	
Theory Composition	
MUSIC	M.A.
Music Education (Comprehensive)	
Performance	
Theory Composition	
MUSIC THERAPY	B.A.
PHILOSOPHY	B.A.
PHYSICAL EDUCATION	B.S.
Adult Fitness Program	
PHYSICAL EDUCATION	M.A.
PHYSICS	B.S.
POLITICAL SCIENCE	B.A.
PSYCHOLOGY	B.A.
Community Psychology	
PSYCHOLOGY	M.A.
Industrial and Organizational Psychology	
READING	M.A.
RECREATION AND LEISURE STUDIES	B.S.
Commercial Recreation and Tourism	
Community Recreation and Leisure Services	
Outdoor Recreation and Recreational Resource Management	
Therapeutic Recreation	
RELIGIOUS STUDIES	B.A.
SOCIAL SCIENCES (ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, HISTORY, POLITICAL SCIENCE, SOCIOLOGY URBAN STUDIES)	M.A.
SOCIOLOGY	B.A.
SPANISH	B.A.
Translation	
SPANISH	M.A.
SPEECH AND THEATRE	B.A.
Broadcasting	
Communication Theory	
Dance Performance	
Speech/Theatre Education (Speech Arts/Dramatics)	
Theatre	
SPEECH AND THEATRE	B.F.A.
Acting/Directing	
Design/Technical Theatre	
SPEECH AND THEATRE	M.A.
Public Media Arts	
Speech/Theatre Education (Speech Arts/Dramatics)	
Technical Theatre, Acting and Directing	
TEACHING	M.A.T.
Teaching Middle School Philosophy	
TOXICOLOGY	B.S.

TRANSCULTURAL STUDIES	B.A.
Asian Studies	
Latin American Studies	
World Cultures	

URBAN STUDIES	B.A.
--------------------------------	-------------

ACCREDITATION AND MEMBERSHIPS

The College is accredited by the Middle States Association of Colleges and Schools. In addition, the National Council for the Accreditation of Teacher Education has granted accreditation for the preparation of elementary and secondary school teachers as well as school service personnel.

The College is a member of the Council of Graduate Schools in the United States, American Association of State Colleges and Universities, American Council on Education, American Association of Colleges for Teacher Education, New Jersey Association of Colleges and Universities, and North American Association of Summer Sessions. Women graduates are accepted for membership in the American Association of University Women.

HISTORY

Founded in 1908 as a normal school, the College began immediately to establish a reputation for academic excellence. When it became Montclair State Teachers College, its purpose was exclusively to prepare secondary school teachers. Later, part-time and extension courses were added and the summer sessions began. The New Jersey State Board of Education then empowered the College to give graduate courses and grant the master's degree. Eventually the College merged with Panzer College of Physical Education and Health and began to offer a new major, Physical Education and Health.

In 1958, the official name was changed to Montclair State College and the academic thrust was directed more strongly toward arts and sciences programs. Since then, the College has placed increasing emphasis on the education of future scholars, government and business administrators and managers, lawyers, physicians, dentists, scientists and researchers, journalists and writers. At the same time, it has maintained its traditional excellence in the preparation of secondary school teachers.

The New Jersey Higher Education Act of 1966 transferred the College's governance from the State Department of Education to the College's own board of trustees. The board consists of nine citizens of New Jersey appointed by the State Board of Higher Education and confirmed by the governor. The president of the College is a member, ex officio. Faculty and student representatives are elected by their peers to meet with the board. This change in governance gave the College increased independence in the management of its program.

FINANCIAL SUPPORT

The College derives its primary income from the State of New Jersey, supplemented by grants from government agencies and private foundations, and by gifts from friends, alumni, corporations and other private philanthropic sources.

GOALS

Since the establishment of its own board of trustees, the College's programs have constantly expanded. Today, as a result of these extensive programs on graduate and undergraduate levels, the College is an institution offering a broad range of arts and sciences as well as professional programs to students with many varying needs, interests and career aims.

Throughout its existence, Montclair State College has been loyal to the basic needs of higher education by recruiting a scholarly, dedicated faculty; selecting earnest students of high academic standing; devising and operating as full and thorough a curriculum as possible; providing extracurricular experiences to extend and enrich the cultural horizons of the College community; keeping alert for opportunities to make the educational process increasingly effective; and emphasizing the importance of the individual in an expanding society.

School of Humanities and Social Sciences

Dean: Philip S. Cohen, Ph.D.

Although they offer several programs with specific career objectives, the departments that comprise the School of Humanities and Social Sciences have traditionally been concerned with the activities and issues central to the liberal arts and general education.

Each department offers at least one major program leading to the Bachelor of Arts degree. Teacher certification is available in appropriate fields.

The School continuously examines its curriculum to strengthen current programs and to reflect new directions. It also provides numerous opportunities for internship training in industrial, clinical, governmental, and educational settings, including the Communications Disorders Center and the Psychoeducational Center located on campus. Interdisciplinary and applied minor programs (e.g. legal studies), whereby students may obtain a broad liberal education along with specific career skills are encouraged.

In its brief history, the School of Humanities and Social Sciences has established a unique identity based upon diversity within a unified, organic whole. Its broad spectrum of departments and programs embraces a variety of methods, content and organization, each bearing a special relationship to each other.

Departments within the School are:

ANTHROPOLOGY
CLASSICS
COMMUNICATION SCIENCES AND DISORDERS
ENGLISH
ENVIRONMENTAL, URBAN, AND
GEOGRAPHIC STUDIES
FRENCH
GERMAN AND SLAVIC
HISTORY
LINGUISTICS
PHILOSOPHY AND RELIGION
POLITICAL SCIENCE
PSYCHOLOGY
SOCIOLOGY
SPANISH AND ITALIAN

School of Mathematical and Natural Sciences

Dean: Richard A. Lynde, Ph.D.

Programs offered by the School are designed to achieve two instructional goals. The first is to allow students of the natural and mathematical sciences an opportunity to obtain significant depth of knowledge within a discipline, and to interpret the process by which knowledge and understanding of the physical world are derived from experimental methods. The second is the interpretation of science and its significance to the college community. The constantly evolving nature of the math-science disciplines stimulates continuing curriculum evaluation and revision along with establishment of new programs.

Separately or in combination, the programs provide appropriate preparation for professional training (primarily in medicine and dentistry) and for graduate work and employment in a wide range of math-science related fields. In addition, the School offers a major in toxicology, as well as teacher-preparation programs leading to certification in the biological or physical sciences and mathematics.

A special asset of the School is its location in northern New Jersey, which has one of the largest concentrations of scientific research organizations in the country. Liaison with business and industry and professional organizations in the area provides the School with unique resources and opportunities for study and research.

Departments within the School are:

BIOLOGY
CHEMISTRY
MATHEMATICS AND COMPUTER SCIENCE
PHYSICS AND GEOSCIENCE

Schools of the College

School of Business Administration

Dean: Suresh A. Desai, Ph.D.

Associate Dean: Michael A. Puglisi, M.B.A.

The undergraduate programs of the School of Business Administration seek to develop the student's abilities to assume the responsibilities of business management. The emphasis is on developing skills and attitudes of mind that will enable the student to operate effectively as a manager in this fast changing, complex world.

The programs provide a broad training in liberal arts and sciences, an understanding of the functional areas of business and of disciplines relevant to the study of business management, and specialization in an area of concentration.

Departments within the School are:

ACCOUNTING, LAW AND TAXATION
BUSINESS EDUCATION AND OFFICE
SYSTEMS ADMINISTRATION
ECONOMICS
FINANCE AND QUANTITATIVE METHODS
MANAGEMENT
MARKETING

School of Fine and Performing Arts

Dean: Donald A. Mattran, M.Mus.

Montclair State College is a designated center of influence for the fine and performing arts. Its School of Fine and Performing Arts offers graduate and undergraduate programs in fine arts, music, speech, theatre, dance, broadcasting and communication. In addition, the School includes a Music Preparatory Division, which offers instruction to children from age 3 through high school, and the Office of Cultural Programming which presents major dance, music, theatrical, literary and visual art events.

The School of Fine and Performing Arts provides professional training and education for students seeking careers in the arts, education, public service and management. It presents cultural events and offers courses and experiences in the arts for the enrichment of campus and community life. The resources of the School are taken to the community in the form of chamber music, dance, concerts, lectures and demonstrations. The School seeks to stimulate public interest in the arts and to encourage research, creative work and experimentation in the arts.

Departments within the School are:

FINE ARTS
MUSIC
SPEECH AND THEATRE

School of Professional Studies

Dean: Nicholas M. Michelli, Ed.D.

The School of Professional Studies offers a wide variety of programs leading to professional careers in private industry, government agencies, non-profit organizations, and public and private schools. All programs in the School are firmly grounded in the liberal arts, and include the opportunity for field based internships. Graduate degree programs are offered by all departments.

The School is responsible for the coordination of the college-wide teacher education program. A number of research and service centered projects are operated by the School, including the Life Skills Center, the Center for the Study of Human Sexuality, the Reading and Study Skills Center and Project THISTLE. In addition, the New Jersey School of Conservation, one of the largest environmental and outdoor education centers in the world, is part of the School of Professional Studies.

Departments within the School are:
COUNSELING, HUMAN SERVICES AND GUIDANCE
CURRICULUM AND TEACHING
EDUCATIONAL FOUNDATIONS
EDUCATIONAL LEADERSHIP
HEALTH PROFESSIONS
HOME ECONOMICS
INDUSTRIAL STUDIES
PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES

Admissions

Address requests for application forms and inquiries concerning admission to: Director of Admissions, Montclair State College, Upper Montclair, New Jersey 07043. Completed applications should be returned to this address accompanied by a \$10.00 non-refundable fee. Decisions are announced on a rolling basis beginning in October, until all spaces are filled.

All admissions are made without regard to an applicant's financial circumstances, sex, race, age, religion, national origin, or physical handicap.

Admission Requirements

Full-time Freshmen

1. An application should be completed and returned as early in the senior year as possible, but no later than March 1.
2. The Scholastic Aptitude Test (SAT) should be taken preferably in November or December, but not later than January of the senior year. The student should request that the College Board forward the results to Montclair State College (College Board Code number 2520).
3. The student is required to have a certificate of graduation from an approved secondary school. A High School Equivalency Certificate is acceptable. The high school transcript must show at least 16 high school subject units. Of them, 14 must be college preparatory subjects. These are the minimum units a student needs to complete:

English	4
American History, Problems of Democracy	2
Mathematics*	2
Science (including 1 lab science)	2
Foreign Languages	2
Electives in Social Studies, Science, Mathematics or Foreign Languages	2
Free Electives	2
Total	16

*More than two years of mathematics are necessary for admission to business, science, mathematics, or computer science majors.

4. Students who wish to enter a specialized field of study are assumed to have prepared for it during the high school years. Achievement scores, though not required, are useful in demonstrating area strength and may be submitted with application materials. Admission to the departments of Fine Arts, Music, or Speech and Theatre is gained through departmental tests, auditions, or interviews. Admission to Montclair State College does not guarantee acceptance into a particular department.



5. Application and admission dates for full-time freshmen:

Completed application on file by:	Supporting documents due by:	Admission for:
March 1	March 15	Fall semester
November 1	November 10	Spring semester

- Accepted full-time students are required to pay a non-refundable \$50 fee by May 1 to hold their places in the class.

Transfer Students

- Approximately one-third of new students entering Montclair each year have attended another college.

To be eligible for transfer admission, a student is required to have completed a minimum of 15 credits with at least a 2.00 (C) average at another accredited college. Specific academic programs may have additional requirements. Transcripts of high school and all previous college records are to be forward to Montclair State College.

- Transfer students may attend on either a full- or part-time basis. Full-time students must choose a major. A departmental interview may be required.

- Application and admission dates for full-time transfer students:

Completed application on file by:	Supporting documents due by:	Admission for:
May 1	May 15	Fall semester
November 1	November 10	Spring semester

- Transfer students desiring part-time admission follow the application dates listed below for part-time students.

Part-Time Students

- Part-time undergraduate study at Montclair State College offers degree program opportunities to students whose responsibilities limit the time they are able to devote to academic pursuit. A student may also apply to attend classes with no specific degree objective. A maximum of 9 credits per semester may be taken. Part-time students may attend late afternoon, evening, or weekend classes during the academic year (September-May) and daytime, late afternoon, or evening classes during the Summer Sessions (June-August).

- The following majors are available on a part-time basis:

Allied Health*
 Anthropology
 Business Administration
 Communication Sciences and Disorders
 Computer Science
 Economics
 English
 Environmental, Urban, and Geographic Studies
 History
 Home Economics
 Industrial Education
 Mathematics
 Office Systems Administration
 Political Science
 Psychology
 Sociology
 Transcultural Studies

*Limited to transfer students from medical related A.A. and A.A.S. degree programs only.

- Application and admission dates for part-time students:

Completed application on file by:	Supporting documents due by:	Admission for:
July 15	July 30	Fall semester
December 1	December 15	Spring semester

Educational Opportunity Fund (E.O.F.) Students

- The Educational Opportunity Fund (E.O.F.) Program at Montclair State College extends the opportunity to attend college to the individual who has the potential to succeed, but lacks the educational and financial resources to gain admission through ordinary procedures.
- Applicants to the E.O.F. Program must be seeking full-time admission, residents of New Jersey for at least one year, from an educationally and economically disadvantaged background, and ineligible for admission by ordinary standards. Counseling, tutorial services and a six-week pre-college summer program are mandatory components of the Program. E.O.F. assists students in adjusting to college life and competing at the college level.
- E.O.F. Program applicants file an application for admissions to the College along with the Financial Aid Questionnaire according to the full-time freshman application date (March 1) for fall semester admission. In addition, complete the New Jersey Financial Aid Form (N.J.F.A.F.) and forward a copy to the Financial Aid Office, Montclair State College.

Family Gross Annual Income Limitations for Dependent Student Eligibility

Number of Persons in household	Family Gross Annual Income Limitation
2-3	\$12,000
4	13,670
5	15,340
6	16,820
7	18,300
8	19,780
more than 8	Add \$1,480 for each additional household member.

- Independent students may also qualify and should contact the Financial Aid Office regarding income limitations for eligibility.

- Application and admission dates for EOF students:

Completed application on file by:	Supporting documents due by:	Admission for:
March 1	March 15	Fall semester

- Further information may be obtained through the Educational Opportunity Fund Office, College Hall, Room 304-C, telephone (201-893-4384).

International Students

Students from foreign countries file an application for admission through the Office of Admissions.

Students whose native language is not English are required to submit scores from the Test of English as a Foreign Language. Since the I-20 form can be granted only to accepted full-time students, candidates from foreign countries should be aware that they must apply for full-time rather than part-time admission.

Application and admission dates for full-time International Students:

Completed application on file by:	Supporting documents due by:	Admission for:
April 1	April 15	Fall semester
November 1	November 10	Spring semester

Second Baccalaureate Students

- Students who have been awarded a baccalaureate degree may obtain a second bachelor's degree in most non-teaching majors at Montclair State. Business and computer science are not available. A minimum of 32 semester hours must be completed at Montclair State College after admission to a second baccalaureate program. The academic departments determine the exact number of semester hours of major and collateral courses to be completed for the second bachelor's degree. Credits earned through this program are considered undergraduate and are assessed at undergraduate tuition and fee rates. These credits are not applicable toward a higher degree at a later date.

- Students are eligible to apply for admission to a second baccalaureate degree program if they have graduated from an accredited four-year college with a minimum cumulative grade point average of 2.50 based upon a possible 4.00 system.
- Applications and admission dates for second baccalaureate students:

Completed application on file by:	Supporting documents due by:	Admission for:
	Full-time Students	
May 1	May 15	Fall semester
November 1	November 10	Spring semester
	Part-time Students	
July 15	July 30	Fall semester
December 1	December 15	Spring semester

Weekend College Students

Montclair State offers students the opportunity to pursue their education during the weekend, on a full- or part-time basis. Many Weekend College students are Spanish-speaking and bilingual, or English-speaking seeking valuable cross-cultural contact.

Students attend classes on Friday evening or during the day on Saturday and Sunday. Those who speak English as a second language may enroll in intensive courses to gain college-level proficiency in English. Classes are conducted in both English and Spanish.

Majors available to the Weekend College students are:

Psychology
Sociology
Spanish

A student who has earned less than 46 credits may apply as an undeclared major.

Application and admission dates for Weekend College students:

Completed application on file by:	Supporting documents due by:	Admission for:
July 1	July 30	Fall semester
November 1	November 10	Spring semester

Second Careers Students

- Adults over twenty-five years of age who wish to begin or continue their college education part-time or full-time may receive assistance and support through the Second Careers program.
- Individuals who have never attended college before take the College Level Examination Program (CLEP) general examinations for possible advanced standing credits and also enroll in a two-credit Reentry Seminar.
- Individuals reentering college through the Second Careers program may not have earned previously more than 30 transferable credits nor may they have been matriculated students at another college during the two years immediately prior to admission to Montclair State College.
- Application and admission dates for Second Careers program:

Completed application on file by:	Supporting documents due by:	Admission for:
	Full-time Students	
May 1	May 15	Fall semester
November 1	November 10	Spring semester
	Part-time Students	
July 15	July 30	Fall semester
December 1	December 15	Spring semester

- Further information may be obtained through the Second Careers Office, College Hall, Room 306, telephone (201-893-4431).

Basic Skills

The College expects all students to demonstrate proficiency in writing, reading, mathematics, and speech. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State College will be assigned a test date and registration will not be completed for entering freshman students until the Basic Skills test scores are in. Developmental courses in reading, writing, and mathematics are required for stu-

dents receiving unsatisfactory scores on one or more sections of the NJCBSPT. Students are expected to take the required developmental courses during their first semester at MSC and MUST SATISFACTORILY COMPLETE THESE COURSES DURING THE FRESHMAN YEAR. Students may consult the Basic Skills Office for a fuller description of the program.

Provisions for Non-Native Speakers of English

Non-native speakers of English will be given a Placement test for English to Speakers of Other Languages (ESOL). Those who achieve a score which indicates a need for ESOL instruction will enroll in ESOL courses instead of Basic Composition or Freshman Composition and will be exempted from their Basic or Freshman Composition requirement until the necessary ESOL courses are completed. ESOL Placement Tests are usually given in June, August, and January.



Tuition and Fees

In order to qualify for the in-state tuition rate, the student, parent(s), or guardian(s) upon whom the student is financially dependent must have lived within the State of New Jersey for a continuous period of one year immediately prior to enrollment. (N.J.S.A. 18:62) All foreign exchange students are considered as non-residents for tuition purposes, regardless of where they reside while attending MSC. Any questions concerning residency status should be directed to the Business Office.

Tuition and fees are subject to change without prior notice.

Tuition

Undergraduate:	
Resident	\$32.00 per semester hour
Non-resident	\$52.00 per semester hour

Fees

General Service Fee, paid each registration	\$1.50 per semester hour
--	--------------------------

Student Building Fee, paid each registration	\$6.25 per semester hour
Student Government Association Fee	\$2.00 per semester hour (MAX: \$24.00 per registration)
Athletic Fee (full-time undergraduates)	\$10.00 per semester

Special Fees

Late Registration Fee: for students whose initial registration for the semester term is during late registration	\$15.00
Late Payment and/or Dishonored Check Fee	\$15.00
Music Fees: Part-time and graduate Students registering for applied music courses pay regular tuition and fees, plus \$150 per applied music course.	
Parking Fee	\$10.00 per year
I.D. Card Replacement Fee (lost card)	\$5.00
Library Fines: overdue books, periodicals, etc.	\$.05 per day
Student Teaching Fee	\$60.00
Transcript Fee	\$2.00 per copy

Refund of Tuition and Fees

Tuition and fees are refunded in full if classes are discontinued by the college.

	Per Cent Refunded
Withdrawal before course begins	100%
Withdrawal during first third of course	50%
Withdrawal after the first third of course	none
Refunds for short term courses will be calculated in the same manner at the time of withdrawal.	

Students are not permitted to withdraw from courses after the midpoint of the semester. In computing refunds, the date of withdrawal is the date on which the Office of the Registrar receives a written notice from the student.

Summary of Expenses

Estimated tuition, fees and expenses* for students attending Montclair State College are as follows for the nine month September-May academic year for a student taking 32 credits:

	New Jersey Commuting Student	New Jersey Student Residing Away From Home	Out-of-State Student Residing Away From Home
Tuition	\$1024.00	\$1024.00	\$1664.00
General Service Fee	48.00	48.00	48.00
Athletic Fee	20.00	20.00	20.00
Student Government Association	48.00	48.00	48.00
Student Union Building Fee	200.00	200.00	200.00
Student Health Insurance (Optional)	60.00	60.00	60.00
Subtotal (payable to College)	1400.00	1400.00	2040.00
Textbooks and Supplies (Estimated)	500.00	500.00	500.00
College Housing (Estimated)	—	2368.00	2368.00
Meals (Estimated) Maximum Meal Plan	—	992.00	992.00
Personal Expenses (Estimated)	600.00	600.00	600.00
Total	\$2500.00	\$5860.00	\$6500.00

All Tuition and Fees Are Subject to Change

*Tuition, fees and expenses based upon 1983-84 figures.

Financial Aid

The Office of Student Financial Aid provides financial assistance to eligible students through the following:

Federally Funded Programs

1. College Work-Study
2. National Direct Student Loans
3. Pell Grants
4. Supplemental Educational Opportunity Grants

State of New Jersey Programs

1. Educational Opportunity Fund
2. Garden State Scholarship
3. Public Tuition Benefits
4. Tuition Aid Grants
5. Student Assistants Employment

Information regarding the N.J. Higher Education Assistance Authority Guaranteed Student Loan (GSL) and PLUS loan programs and requests for applications may be obtained from the Financial Aid Office. Programs of financial assistance are revised from year-to-year and hence both eligibility criteria and the availability of funds may change. Inquiries for further information and requests for applications should be addressed to:

The Office of Student Financial Aid
C-321
College Hall
Montclair State College
Upper Montclair, N.J. 07043

Scholarships and Awards

Many special awards, funds, and scholarships have been established by the benefactors of the College who share its interest in quality education. A complete list of these opportunities may be found at the back of this catalog in the Appendix of Scholarships and Awards.



Intra-Collegiate Academic Programs

In order to meet changing educational needs, the Office of Intra-Collegiate Academic Programs has encouraged the development of innovative programs.

Cooperative Education

Cooperative Education is a unique learning opportunity integrating classroom studies and supervised work experiences. Co-op enables a student to explore various career options and gain valuable experience prior to graduation.

Students with a minimum grade point average of 2.25 and 45 completed credits are invited to participate in the program. Paid full- or part-time internships meeting co-op work-learning criteria may be arranged for a minimum of one semester. Students can earn 4, 6, or 8 major or free elective credits depending on the length of the position.

Screening criteria for the positions are determined by the employer. Students meeting these criteria are referred for interviews. Hiring decisions are made solely by the employers.

Students interested in the co-op program should apply to the Cooperative Education Office one semester prior to desired placement.

Educational Opportunity Fund (EOF)

The EOF provides the educationally and economically disadvantaged person with the opportunity to attend colleges or professional schools in New Jersey. The goal is to make college possible for the student who has the potential to succeed but lacks the credentials required to be admitted through the normal process. The EOF program recruits, admits, and supports the motivated student through graduation from college.

A wide range of majors are available to EOF students, and they are also offered special services that help them in their college career. These include assistance in applying for financial aid; a required six-week summer pre-college experience that aids in the transition and adjustment to college life; tutorial assistance; and continual academic, career and personal counseling.

For detailed information, call the director of EOF, telephone (201-893-4384).

New Jersey State College Council for International Education (CIE)

The CIE offers study abroad programs to eligible students attending New Jersey state colleges.

A voluntary consortium, the CIE, represents seven of the eight New Jersey state colleges. It is now in its fifteenth year of operation and has sent nearly two thousand New Jersey students abroad. All programs have been developed and are constantly supervised by academic personnel from the various member colleges—with the interests and needs of New Jersey state college students specifically in mind.

The study abroad program is the equivalent of a semester's work. Upon successful completion of the program, students are usually assigned 15-16

credits. Credits may be applied to fulfill general education, major, or elective requirements.

Normally, only students at New Jersey state colleges are eligible for CIE programs. Each campus establishes its own criteria, but generally students are selected on the basis of maturity, initiative, academic performance, and faculty recommendation.

In regard to cost, students usually find that for little more money than they would spend at home, they can spend an exciting semester abroad. Arrangements for board and lodging are included in the quoted price. Students are entitled to the same forms of financial assistance available to regular students, since they are technically considered to be students at their colleges while abroad.

Additional information and application forms are available by contacting the Director of Intra-Collegiate Academic Programs, College Hall, Room 306, telephone (201-893-4432).

Second Careers

This program is designed for adults who want to begin or resume study for a bachelor's degree either part-time or full-time. It recognizes and addresses the unique problems of adult learners by providing pre-admission and post-admission counseling, an orientation seminar that focuses on adults re-entering college, flexible class scheduling and an opportunity to earn advanced credits through the College Level Examination Program (CLEP) general examinations.

For further information about Second Careers, call the director (201-893-4431).

Special Tutorial Program (STP)

STP is designed to provide educational opportunity for a select group of educationally underprepared students. The mission of STP is to help make college a reality for this group of highly motivated students who lack the credentials to meet the criteria for college entrance. STP recruits its population through the EOF program applicant pool.

STP students are provided with special services such as counseling and tutorial assistance. They are also encouraged to enroll in a course entitled College Level Study Skills as an introduction and orientation to college academic and social life.

For additional information call the director of STP, (201-893-4384).

Upward Bound

This program was established for high school students from low-income families who have inadequate secondary school preparation. It is a pre-college program that helps students to acquire the skills and motivation necessary for higher education.

The program is sponsored by Montclair State College and fully funded by the United States Office of Education. The summer phase of the Project is held at Montclair State College and the academic year component at a site in Jersey City, N.J. One hundred students, in the tenth and eleventh grades, are recruited from Jersey City and Montclair for the Project.

Weekend College

Montclair State College offers the opportunity to attend college during the weekends as a full-time or as a part-time student working toward a bachelor's degree. Classes are offered throughout the weekend in both the fall and the spring semesters beginning on Friday evening and continuing on Saturdays and Sundays. A student may take one course or several, on one day, or on all three days. As a student progresses toward the degree, he or she may have to take some of the advanced courses during the week.

Each student has an academic counselor who helps in the proper selection of courses and scheduling that meets the student's needs and interests.

The Weekend College is a valuable cross-cultural experience for the English speaking person seeking to work among the Spanish speaking. Many of the students in the Weekend College are Spanish speaking because a major part of the Weekend College is geared toward providing an education that meets the needs of the Spanish-speaking or bilingual person.

To obtain detailed information, contact the Weekend College office at (201-893-4433).

Winter Session

Innovation and flexibility were the reasons Montclair State College established the Winter Session.

In a separate three week period in January devoted to intensive work, students are offered the opportunity to take a single course which usually could not be incorporated in the regular semester schedule. Traditional courses, which may be organized and presented differently from the usual 16-week pattern, are also offered.

The Winter Session affords the faculty an opportunity to teach new courses, renovate old courses, design interdepartmental courses, develop study abroad, travel, conduct research, or explore areas of study that are new, different and thought provoking.

Resources and Facilities

Academic Counseling

Students are encouraged to seek academic counseling often during their college careers. Academic counselors can help students to plan an academic program and provide assistance in referring students to other resources if necessary.

School	Academic Counselor
BUSINESS ADMINISTRATION	William Welsch Gabriella DiVirgilio Jose Magdalene Marc Schaeffer College Hall, Room 308 (201-893-4106)
FINE AND PERFORMING ARTS	Laura Woodson-Hammond Life Hall, Room 220 (201-893-4237)
HUMANITIES AND SOCIAL SCIENCES	Gladys Tate Elaine Weinman Partridge Hall, Room 118 (201-893-4401) Gail Feinbloom Jose Gorrin Carl Snipes Russ Hall, Room 124 (201-893-5150)
MATHEMATICAL AND NATURAL SCIENCES	Marie Frazee-Baldassarre Richardson Hall, Room 374 (201-893-5142)
PROFESSIONAL STUDIES	William Welsch Gabriella DiVirgilio Jose Magdalene Marc Schaeffer College Hall, Room 308 (201-893-4106)
UNDECLARED MAJORS	Peter Donovan Student Center, Room 105 (201-893-4223)

PART-TIME PROVISIONALLY MATRICULATED STUDENTS

Curtis Jackson
Alicia Savage
John Sanz
College Hall, Room 306
(201-893-4432)

Alumni Association

Graduates of Montclair State College automatically become members of the Alumni Association. Each year the Association Executive Board and the alumni director plan a schedule of activities including class reunions, fall homecoming, Alumni Weekend, special conferences and senior class activities. The Association also sponsors scholarships and faculty grants and conducts fundraising activities which enable alumni to support their favorite College projects. The Alumni Office is located in the Alumni House, 34 Normal Avenue, Upper Montclair, telephone (201-893-4141).

Athletics

Intercollegiate athletics are coordinated by a board of student, faculty and alumni representatives called the All College Intercollegiate Athletic Commission. The intercollegiate program provides students of all Schools with common and unifying activities.

The women's varsity program includes basketball, cross country, fencing, field hockey, gymnastics, softball, swimming, tennis, track, and lacrosse.

The men's intercollegiate sports are baseball, basketball, cross country, football, golf, lacrosse, soccer, tennis, track, wrestling, swimming and water polo. Also offered is co-ed cheerleading for both football and basketball.

Rules of eligibility are determined by the College, the Eastern College Athletics Conference and the National Collegiate Athletic Association. All participants in the intercollegiate program must pass a medical examination each year.

All facilities meet the standards of the National Collegiate Athletic Association.

Panzer Gymnasium Complex- six-lane indoor pool with electrical timer; wrestling and weight rooms; a modern co-ed training room; fully equipped gymnastic area; sauna; newly renovated locker areas; basketball court and an auxiliary gym.

Sprague Field- Astro-turf; seating for six thousand; permanent lighting system (all home football, soccer and some lacrosse games scheduled for this facility).

Pittser Field- Baseball diamond, practice area for football; eight tennis courts and a lighted platform tennis court which is adjacent to field.

Dioguardi Field- Lighted eight-lane synthetic surface track and field hockey and lacrosse fields.

Utility field- 400 foot square natural grass field for band practice, and intramural use.

Softball fields- 2 lighted fields for greater flexibility of scheduling games and practices.

Intercollegiate Athletics is located in the Panzer School Center, telephone (201-893-5234).

Bookstore

The College Store is located on the lower level of the Student Center. Normal hours of operation are Monday through Thursday, 8:30 A.M. - 8:00 P.M. and Fridays, 8:30 A.M. - 4:30 P.M. Extended hours are available at the beginning of each semester. Telephone (201-893-4309).

The College Store carries required textbooks and supplies as well as a wide variety of other merchandise. In many cases, textbooks are available for purchase several weeks prior to the beginning of the semester. It is recommended that students bring their course schedules to the College Store to aid in the selection of books, which should be purchased early. During the fall and spring semesters, undamaged books may be returned within ten calendar days of the first day of class provided that students produce sales receipts.

Campus Employment

College Work Study Program (CWSP) makes it possible for a student to earn money in a federally supported work-study program in the community or on campus. Eligibility is based on how much need is shown on the New Jersey Financial Aid Form. Earnings can only be used for educational expenses. To apply, contact the college's Financial Aid Office for the correct form.

Student Assistants Work Program (SA) involves various jobs on campus. Again, eligibility is based on a student's proven need. SA earnings can only be used for meeting education costs.

Information on *all* these aid programs is available through the Financial Aid Office, 321 College Hall, telephone (201-893-4461).

Career Services

Career Services helps students and alumni to explore career options. The career library has up-to-date information on numerous fields. Seniors can use the recruitment program and Candidate Retrieval System (a computerized job-matching service) to find full-time, part-time and summer jobs.

Career counselors are available to help students make themselves employable before graduation, write effective resumes, conduct successful interviews and job searches, or explore career options in their majors. Activities such as these are addressed in seminars and individual sessions. Students are urged to use Career Services as early as possible in their college lives.

Career Services is located in Room 104, Student Center, telephone (201-893-5195).

Center for Continuing Education

The Center for Continuing Education provides a variety of direct educational services for older adults, as well as to industry, community agencies, and institutions. Services include educational and testing services in the areas of basic education, high school equivalency, College Level Examination Program and the General Educational Development test. Teachers involved in the education of adults are provided programs designed for staff development and leadership services. The Center, through its National Adult Education Clearinghouse, provides an information exchange for adult educators throughout the world. It is recognized by UNESCO as a member unit of the Worldwide Information and Documentation Centers for Adult Education. Its library is extensive and can be used directly or through its mail loan service. Cooperating with academic departments throughout the College, credit and non-credit undergraduate level television courses are offered to adults in our region.

The Center provides the undergraduate student opportunities for independent study as well as practicum experience in working with the community agencies through cooperation with academic departments of the College.

Undergraduate level course offerings:

0807 459 SEMINAR AND PRACTICUM IN ADULT COMMUNITY EDUCATION

Course designed to develop awareness, skills and understanding in teaching of adults. Lecture-discussion demonstration and practicum experience. Course participant will be able to become more aware of developing new approaches to guiding learning experiences for the adult.

0807 460 CURRICULUM AND INSTRUCTION IN ADULT EDUCATION

This course is designed to increase undergraduate and graduate student professional competence as an adult educator through the development of his or her knowledge, understanding, and application of theory, teaching techniques, and curriculum in the field of adult education.

The Center's main office is located at 860 Valley Road, telephone (201-893-4355).

Computer Services Center

The center has facilities for both the academic and administrative functions of the College. In consortium with the other New Jersey State Colleges, the College offers computer services using the latest technology available and is a joint owner of ECN, The New Jersey Educational Computer Network. ECN hardware currently includes an IBM 3033U with 12 megabytes of memory and an IBM 370/168 model III with 8 megabytes of memory. The Computer Center is located in Room 106, College Hall, (201-893-4101).

The College has 40 terminals, various keypunch units and printers and a Data 100 Remote Job Entry Station. It also provides a Burroughs Model 1955 minicomputer and 30 DEC Rainbow microcomputers.

The academic computing facilities are located in Richardson Hall, with satellite locations in Morehead and Russ Halls.

Health Services

The College Health Center is staffed by a doctor and four nurses. The Center provides pre-participation examinations, tuberculosis screening, first aid, pregnancy tests and referrals to personal physicians or specialists.

Student medical insurance for accident and sickness benefits is available at a moderate annual premium, payable at registration.

Although it is recommended for participation in college intramurals, coverage is not required. Additional information is available from the Health Center, Blanton Hall (201-893-4362).

Identification Cards

All students enrolled at the College are required to carry a current Montclair State College identification card (ID). The identification card is necessary for borrowing library materials and for participation in other student activities. Cards may be obtained in the College ID Card Office, which is located in the Student Center Annex, Room 125, (201-893-4147).

Library

The Harry A. Sprague Library is housed in a centrally located, attractive modern building. The library is designed to provide ample reading and study areas and easy access to open shelves in pleasant, comfortably furnished surroundings. Combining the best of traditional resources with the latest in non-print communications technology, the three floors of the library form a vast information center.

The library owns more than a million items, with more than 300,000 books on the shelves, 2,500 periodical subscriptions, 30,000 government documents, and more than 700,000 items on microform. The Non-Print Media Department has equipment for viewing and hearing a collection of videocassettes, records, audiocassettes, filmstrips, and soundslide sets. As a designated government depository, the library receives and makes available for public use thousands of federal and state publications.

Each member of the professional library staff is an expert in both library science and a subject specialty. The Reference librarians are dedicated to helping students learn how to approach research assignments as well as locate information. Hundreds of classes in library instruction are conducted each year by the librarians. These range from the basic introductory library lecture/tour and a popular term paper clinic, to classes in advanced research in the various subject fields. Reference librarians are always available to assist students with individual projects and to answer specific reference questions.

The introduction of computerized technology provides access to the library's holdings through an on-line system. Interlibrary loan now uses a computer terminal to quickly locate and send for books and articles that are not in the collection and are needed by students. On-line bibliographic searching is available to students and faculty. While these technological changes are important, the library's primary mission will always be the enhancement and support of the college's educational program through personal attention to each student's individual needs. Telephone (201-893-4291).

Media Center

A well-equipped Media Center is located in College Hall. It takes care of all requests for audiovisual materials, equipment and services. The center also handles the scheduling and rental of films.

On request, the staff will demonstrate audiovisual techniques and design and produce custom graphic materials. The center lends a variety of equipment to students for special projects. Telephone (201-893-4241).

Panzer School Council

In 1958, Panzer College, a noted single-purpose institution with a rich tradition of developing teachers of physical education and health, was incorporated into Montclair State College and became known as the Panzer School of Physical Education and Health at Montclair State College. The College became the custodian and depository of Panzer College records. The Panzer School Council was established in 1971 during a reorganization of the College. Presently, the Council is part of the School of Professional Studies. Membership consists of the chairpersons of the Departments of Health Professions and Physical Education, Recreation and Leisure Studies as well as the Dean of the School of Professional Studies. A major portion of the Council's efforts to aid students in extra-curricular activities are actively and generously supported by the Panzer-Montclair College Alumni Association. Such support takes the form of direct scholarship aid, providing funds for professional conferences, workshops and sports clinics. Telephone (201-893-5167).

Parking and Traffic

Parking is available for students who purchase and display current decals or permits in those areas designated on campus maps. Campus shuttle buses are available for transportation from the Quarry lots to upper campus.

All N.J. State traffic regulations are enforced at MSC Campus regulations are listed in the current Schedule of Courses booklet.

Pre-Law Advisor

The College Pre-Law Advisor, Dr. Lucinda Long counsels interested students in the possibilities and procedures for law school admission. She also maintains a library of catalogues from law schools actively seeking qualified students. The office of the Pre-Law Advisor is located in Russ Hall 120, telephone (201-893-7573).

Through the new Pre-Law Studies Minor, assistance is offered in planning appropriate curriculum for the individual student. See LEGAL STUDIES for further information. The office of the Director of the Center for Legal Studies, Dr. Marilyn Frankenthaler, is located in Partridge Hall 313, telephone (201-893-4228).

Psychological Counseling

A staff of professional psychologists and a part-time psychiatrist are available every school day at the Office of Psychological Services. The staff observes the ethical standards of the American Psychological Association, guaranteeing confidentiality.

Counselees have access to testing, diagnosis, individual and group therapy, off-campus referrals and a variety of groups for specific problems.

Psychoeducational Center

The Psychoeducational Center is a campus-based training facility. Its purpose is to provide integrated clinical and educational experiences for students of Montclair State College who are preparing for professional roles as audiologists, music therapists, reading teachers, speech pathologists or recreation therapists, learning disabilities specialists, and teachers of the handicapped. Training is conducted through the campus demonstration school, communication disorders center, and music therapy clinic, which provide service to the community. The center is located in Room 118 of the Speech building, telephone (201-893-4255).

Police and Security

The college maintains a full-time police force, whose mission is to protect and serve members of the MSC community. The police enforce all traffic and parking regulations, being empowered to issue both campus and municipal citations. In addition they receive and investigate all reports of crimes, provide crime prevention information and handle medical emergencies.

MSC also has security officers whose primary purpose is the protection of property. (This includes fire safety activities).

For information about police and/or security; traffic and parking; self protection seminars, and other police-related matters, call Campus Police, Chapin Hall, at telephone (201-893-5222).

Religious Facilities and Programs

Several religiously oriented organizations exist at Montclair State College, and can be contacted through the Office of Religious Affairs located in the Student Center, Room 409. Organizations presently recognized on campus include Chi Alpha, Inter Varsity Christian Fellowship, Jewish Student Union, Montclair State Protestant Foundation and the Newman Community. Telephone (201-893-5364).

Residence Facilities

The College offers several choices for student residence. For undergraduates, there are five residence halls, and one apartment complex. They hold 2,000 men and women. There is also off-campus housing for more than 1,500 in the surrounding community.

New students are given high priority for campus residence, and returning students have an excellent possibility of living on campus because of the 640 bed residence (Blanton Hall) which opened in January of 1982.

Each hall is staffed by a director and student assistants. They are very glad to describe the many activities and organizations available, as well as job and leadership opportunities.

In residence halls, students choose one of the board plans at the cafeterias. If they live off campus or in the apartment complex, they can sign up for a college meal plan or not, as desired.

For further information, contact Residence Director, Bohn Hall, Room 401, telephone (201-893-5252).

Student Center

The Student Center is a main gathering point for recreational and social activities. This large modern building has a cafeteria, snack bar, dining room, rathskeller, bookstore, gameroom, candy store, information desk, flea market, and full-service bank.

This building, along with the newly constructed annex and locker facility, offer ample meeting locations, comfortable lounges, a weightroom and numerous student offices.

Summer Sessions

Summer Sessions provides opportunities for full-time and part-time students to pursue their college studies and take advantage of special educational, cultural and activity programs during a six-week day session and eight-week evening session, mid-June through the first week of August. In addition, short-term courses and programs are offered throughout the summer and during pre-session (first two weeks of June) and post-session (middle two weeks of August). College courses, seminars and workshops are offered on the undergraduate and graduate levels.

Qualified visiting students from other colleges and universities and Montclair State College students who meet the requirements for registration may enroll in Summer Sessions courses and programs. Interested individuals should contact the Summer Sessions Office, 215 College Hall, for further information, telephone (201-893-4352).

Television Center

A well-equipped Television Center is located in Life Hall, Room 104. It takes care of all requests for television equipment and services. On request, the staff will demonstrate television techniques and lend a variety of television equipment to students for special projects. Telephone (201-893-4341).

Veterans Credit

Veterans who have completed a minimum of six months active duty are eligible to receive three elective credits, one of which fulfills the one semester physical education requirement. Applications to receive these credits are available in the Veterans office, Annex E, (201-893-5180).

The Women's Center

The Women's Center aids in the education of men and women to their ever-changing roles in society. Its staff seeks to increase the too-often ignored responsibilities, potentials, and opportunities leading to the self-determination and fulfillment of every human being.

To achieve this goal for the total community on and off campus the center provides a drop-in center, counseling, skills courses, a library, personal awareness seminars and many other aids in the process of individual growth.

The Women's Center is located in Room 420, Student Center, telephone (201-893-5106).

Student Affairs and Activities

Office of Student Affairs

The Office of Student Affairs is located in 217 College Hall and exists to provide general counseling to students, faculty, and others when their problems cannot be readily resolved through the College's routine procedures and channels.

The Vice President for Student Affairs coordinates and supervises the activities of the following areas: Admissions, Campus Ministry, Career Services, Financial Aid, Health Center, Psychological Services, Registration, Residence Life, Student Activities, and the Women's Center. In addition, the Vice President, assisted by the Dean of Students and Assistant Dean of Students, serves as an advocate on behalf of all students attending the College. Telephone (201-893-4311).

The philosophy of the Student Affairs Office is to create opportunities for favorable personal development. The following major organizations represent the formal structure supporting that philosophy.

Student Government Association, Inc. (SGA)

All undergraduates are members of the Student Government Association, a one million dollar self-governing organization. The SGA provides legal aid, drop-in center, pharmacy program, and other services through fees paid by all full-time and part-time undergraduates.

The legislative branch is composed of student representatives from each school and academic department. The executive branch consists of the president, vice-president, treasurer, and secretary.

Black Student Cooperative Union (BSCU)

BSCU is dedicated and willing to help others learn more about the culture of Black people and to help Black men and women develop pride and awareness in themselves and their communities. Activities include films, lectures, social events, and Kwanza.

Class One Concerts (C1C)

C1C gives the College community opportunities to enjoy on-campus concerts by various popular groups and artists. Members learn all phases of concert production, and expand their awareness of professional music presentation.

College Life Union Board (CLUB)

CLUB coordinates social, cultural, and recreational student programs. Movies, trips, parties, catacombs, and other activities are planned each semester. Annual CLUB events include Winter and Spring Balls, and Spring Day.

Council on International and National Affairs (CINA)

CINA examines national and international cultural and political events and issues. Lectures, seminars, films, trips, and programs for UNICEF are planned and presented to the College community.

Human Relations Organization (HRO)

HRO serves students with training sessions in group dynamics and psychological development. An HRO weekend is held twice a year at a local camp site for nominal cost. HRO also sponsors on-campus seminars and group interaction during fall and spring semesters.

La Campana

The College yearbook, *La Campana*, is a yearly reflection of campus activities and concerns. Students interested in photography and the graphic arts are encouraged to join.

Latin American Student Organization (LASO)

LASO provides students an opportunity to explore Latin-American culture, music, art, and literature. Activities include dances, trips, Latin Week, and A Night in the Caribbean.

The Montclarion

The weekly student newspaper keeps the College community abreast of campus news, local events, and happenings at other colleges. Members gain journalistic experience in news, feature, and sports writing, as well as copy editing, layout, typesetting, photojournalism, circulation, and advertising. All undergraduates are eligible for staff positions.

Players

Players is a theatre organization which offers students the opportunity to participate in every phase of play production. Full-scale shows are presented each year. Players also sponsors theatre trips to New York City, and workshops given by guest artists.

Quarterly

Quarterly, the literary and art magazine, seeks original material for publication each semester. It offers students a chance to express and share their individuality with the College community.

Student Intramural and Leisure Council (SILC)

SILC has the unique distinction of being one of the country's few student controlled intramural programs. The day-to-day programming offered by SILC includes leagues for men and women in football, basketball, softball, volleyball, tennis, and bowling. It also sponsors badminton, water polo, and pinochle, and special activities such as trips to professional sporting events and a night of roller skating.

WMSC – 101.5 FM

WMSC, "the sound choice," is the student operated radio station. It broadcasts to northeastern New Jersey seven days a week from 6 a.m. to 1 a.m., featuring a wide selection of music and entertainment programming, news and specials. WMSC provides experience for students interested in learning radio production and management, newscasting and disc jockeying.

Academic Policies and Procedures

Advanced Placement

Students with demonstrable equivalencies may, under appropriate circumstances, be exempted from required courses and permitted to take more advanced work. Eligibility for advanced placement may be established on the basis of high school records or by scoring sufficiently well on specialized tests including the Advanced Placement Examination of the College Entrance Examination Board, College Level Entrance Placement (CLEP) tests, challenge examinations, etc. Students desiring advanced placement are advised to consult with the appropriate department chairperson and school dean to determine specific possibilities within their area of competence.

Advisement

A full-time academic counselor is assigned to each School to counsel students in curriculum planning, registration and choice of major. There is also an academic counselor available to students who enter the College as undeclared majors.

Undeclared majors are expected to declare a major by the time they have earned 48 credits. A counseling session may be arranged to help you with this decision.

New students are assigned a faculty member from their major departments for general counseling and academic advisement.

A freshman seminar provides students undecided on a major with information concerning educational opportunities and services of the College. Others may enroll on a space available basis.

Attendance

Students are expected to fulfill all course requirements which may include class attendance. Instructors should notify the students in writing of what the course requirements will be. Professors may penalize the students for failure to meet attendance requirements.

It is the student's responsibility to confirm registration and determine course requirements by the end of the add-drop period

Audit Policy

To "audit" a course is to attend class regularly, without the obligation of participating in class discussions, laboratory work, examinations, performances or any class activity other than listening. A course may be audited under the following conditions.

1. Students auditing a course are required to establish eligibility for admission, register, and pay full tuition and fees.
2. A course may be audited on a space available basis only and requires approval and signature of the department chairperson.
3. Students are required to file an Audit Application with the Office of the Registrar in addition to the registration form.
4. The College's attendance policy applies to audited courses.
5. Audited courses are considered as part of the student's regular course load.
6. Audited courses do not carry academic credit.
7. An "audit" may not be changed to "credit" nor a "credit" to "audit" after the first three weeks of the semester.
8. The student's record will show a grade of "AU" for the course if the instructor certifies that the regulations, including required attendance, have been met.
9. A student who later seeks credit by examination for a course previously audited must be enrolled in the College at the time that the examination is taken and is subject to such fee charges for the examination as the College may establish.
10. A student who has audited a course may take the course at a later date for credit.

Basic Skills Requirements

The College expects all students to demonstrate proficiency in writing, reading, mathematics, and speech. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered prior to the beginning of the fall and spring semesters. Students receiving low scores on the various sections of the NJCBSPT will have credits added to the number of semester hours required to graduate. Developmental courses in reading, writing and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT. Students not completing all required developmental courses within the first year of enrollment (full-time students) or within two years of enrollment (part-time students) will be dismissed from the College.

The MSC basic skills requirement in speech must be fulfilled within a student's first 58 semester hour credits by satisfactory completion of the speech communication requirement or by a successful Speech Placement Waiver evaluation.

Cancellation of Courses and Staffing

The College reserves the right to cancel any course for which the enrollment is insufficient. Students may then register for another course for equal credit or receive a full refund of tuition and fees. The College also reserves the right to change faculty assignments and, therefore, cannot guarantee students faculty of their choice.

Class Standing

Sophomore standing is defined as a minimum of 26 semester hours earned with a cumulative grade point average of 1.60 based upon a possible 4.00 system; junior standing is a minimum of 58 semester hours earned with a cumulative grade point average of 1.80; senior standing is a minimum of 90 semester hours earned with a cumulative grade point average of 2.00. One hundred twenty-eight semester hours (more in certain degree programs) earned with a 2.00 cumulative and major grade point average in a prescribed degree program of study are required for graduation.

Course Loads

Full-Time Undergraduate Students

Full-time undergraduate students should earn 15-16 credit hours per semester. Special permission is required to take a Course Overload of more than 19 semester hours. To be considered a full-time student one must register for and continue active enrollment in at least 12 semester hours for the entire semester.

Full-time undergraduate students who have at least sophomore standing (26 credit hours earned) and a 3.00 or above cumulative grade point average or a 3.00 or above grade point average for the semester most recently completed may, upon the approval of the Dean of the School in which the student is majoring, register for a Course Overload. A School Dean may make exceptions to the eligibility criteria for Course Overloads. Requests for Course Overloads of 23 or more credit hours must additionally be approved by the Vice President for Academic Affairs.

All registrations for Course Overloads are on a space available basis during Change of Program registration. The College reserves the right to reduce the course load of any student who registers for more than 19 credit hours without Course Overload approval

Part-Time Students

Undergraduate and graduate students admitted to the College for part-time study are limited to a maximum 9-semester-hour course load each semester (fall and spring). Students are required to complete a minimum of 3 semester hours of course work within 3 consecutive semesters (including fall and spring terms only) in order to maintain active status.

Course Overlap

Students may not register for courses where there is a time/day overlap. Should such a condition exist, the College reserves the right to drop one of the courses from the student's schedule.

In certain laboratory or studio type courses, in exceptional circumstances, course registration overlap may be permitted with written approval of the instructors of both courses as well as the approval of the dean and chairperson responsible for the instructional area.

Written permission must be obtained prior to the end of the official in-person registration.



Credit by Examination and Experience

Montclair State College offers the opportunity to all students to earn up to 60 semester hours through the College Level Examination Program (CLEP), the Advanced Placement Examination of the College Entrance Examination Board (CEEB), or departmental challenge examinations.

The CLEP General Examinations offer entering students the chance to earn up to 27 credits; thus the bachelor's degree may be earned in three years. In addition to the general examination, there are also over 30 CLEP subject matter examinations.

CLEP tests are given nationally during the third week of each month. Since CLEP general examination scores must be submitted prior to enrollment, these tests should be taken at least two months before the beginning of the semester. Montclair State College is a testing center and an application for the tests may be obtained by writing to:

CLEP Test Center
Center for Continuing Education
Montclair State College
Upper Montclair, NJ 07043

Montclair State offers students the opportunity to take subject matter challenge examinations for many courses. Not all courses at the College are eligible for credit by examination.

Credit for Life Experience

Montclair State College uses the evaluating services of Thomas Edison College for those who want life experience credits. All requests for evaluation must be made to Thomas Edison College in the first semester of enrollment. This evaluation and a report of credit will be sent to Montclair State. Failure to initiate the process in the first semester can cause the student the loss of credit.

Exemptions from Freshman English

1. A student who scores 4 on the Advanced Placement test is exempted from "Freshman Composition;" the waiver is issued by the Coordinator of Freshman English (CFE). The student is granted 3 credits but must submit a research paper to the CFE or his designee to fulfill the College writing requirement.
2. A student who scores 600 on the English Achievement test is exempted from both "Freshman Composition" and "Introduction to Literature;" the waiver is issued by the CFE. The student is granted 6 credits but must submit a research paper to the CFE or his designee to fulfill the College writing requirement. Once the research paper is accepted the student has completed the Communication requirements in both reading and writing.
3. A student who wishes to be granted an exemption from the College writing requirement must demonstrate writing and research competence at the same level as those students who successfully complete "Freshman Composition." The student's work will be evaluated by the CFE or his designee. This exemption carries *no credit*.
4. A student who wishes to be granted an exemption from the College reading requirement must demonstrate reading and interpretation competence at the same level as those who successfully complete "Introduction to Literature." The student's work will be evaluated by the CFE or his designee. This exemption carries *no credit*.
5. A student who wishes to be granted an exemption from "Freshman English" or "Introduction to Literature" or both, but wants credit must register for the course(s). Once registered the student asks the instructor for a challenge examination. With respect to "Freshman Composition," the student must submit a research project as part of the challenge process.
6. A student may be granted an exemption from one or both semesters of "Freshman English" through the CLEP Program. For exemption from "Freshman Composition," the student will also have to submit an acceptable research project.

Final Evaluation for Graduation

It is the student's responsibility to complete the requirements as prescribed in the Undergraduate Catalog when they entered or as subsequently modified. Graduation requirements include a minimum GPA of 2.00 on a cumulative basis and also in the major. All questions regarding a student's program of studies should be referred to the faculty or school counselor. It is the student's responsibility to meet all graduation require-

ments.

Seniors who are eligible must file an APPLICATION FOR GRADUATION form in the Office of the Registrar according to the following schedule: by October 1 for the following June; June 1 for the following January; March 1 for the following August graduation.

The student will be mailed, prior to in-person registration for the student's final semester, a copy of the final evaluation, which will detail the requirements which must be completed in order to meet the intended date of graduation. Students who wish to confirm receipt of their Application for Final Evaluation by the Office of the Registrar should consult the posted list outside the Office during the month immediately following the filing deadline.

Students who will be eligible for New Jersey State Teaching Certificates must complete the application for a certification and pay the required fees (in the Office of the Registrar) during the following periods: March 15 to April 15 for June graduation; October 15 to November 15 for January graduation; July 1 to August 1 for August graduation.

Final Examinations

Final examinations and evaluations are generally of a comprehensive nature covering the semester's work, but the form, determined by the nature of the course subject matter, varies with individual professors and classes. A schedule of final examinations is found in the Schedule of Courses booklet each semester.

Final examinations are weighted in relation to other evaluations which are made throughout the semester and do not replace periodic tests and other means of measuring student progress.

Grades and Standards

There are ten grades used at Montclair State College:

A	Excellent	IN	Incomplete
B	Good	WD	Withdrew
C	Fair	NC	No Credit
D	Poor	AU	Audit
F	Failure	P	Pass

The mark "F" signifies: (1) academic failure; (2) failure of the student to submit written notice of withdrawal; or (3) withdrawal after the midpoint in the semester. The mark "WD" is given to those who submit in writing their intention of withdrawing from a course before the midpoint of a semester.

The grade "IN" is intended to indicate that the student has not completed the course and that a grade is being withheld until the work is performed and approved. Students must enter into a formal contract with the faculty prior to the end of the semester, using the form available in the Office of the Registrar. The "IN," if not replaced with a final grade by May 1st for Fall and Winter incompletes and December 1st for Spring and Summer, will become an "F." Exceptions can be granted only upon petition to the appropriate School Dean.

A change of grade request from other than an "IN" grade, must be processed by faculty and approved no later than the end of the next fall semester following the semester in which the grade was earned.

Graduation Honors

Undergraduate students who have completed a minimum of 60 undergraduate credits at Montclair State College are recognized for academic honors. An A, B, C, or D must be received for a minimum of 48 of these 60 credits.

Academic honors are awarded as follows:

Average of 3.45 – 3.64 cum laude

Average of 3.65 – 3.84 magna cum laude

Average of 3.85 – 4.00 summa cum laude

An honors diploma will be awarded in addition to the regular diploma. A period of 3-4 months should be allowed for verification of cumulative average, printing, and mailing. However, the honors notation will appear on the official transcript after graduation.

Honors List

The Academic Honors List, issued after the close of each semester by the academic deans, gives recognition to students with a 3.50 or higher semester GPA if a minimum of 12 credits is earned in courses that contribute to the GPA.

Independent Study

Montclair State College offers opportunities for students to undertake academic credit on an independent study basis. Students who wish to register for courses on an independent study basis must obtain an "Independent Study Application" form from the Office of the Registrar. This form must be completed in full and approved by the instructor and the department chairperson prior to registration.

One copy of this form is to be retained by the student. One copy is to be submitted to the department chairperson, one copy remains with the instructor and the original must be submitted at the time of registration.

All courses which are approved to be taken on an independent study basis must also be listed on the registration form. The full course number (except reference and section numbers) is required.

Leave of Absence

Full-time undergraduate students in good academic standing (minimum cumulative grade point average, 2.00) may take a leave of absence of one or two semesters. This must be arranged through the Office of Student Affairs.

Students who take a leave are guaranteed re-admission if they file with the Office of Admissions an application for re-admission by August 1 for the fall semester and December 1 for the spring semester. Upon termination of the leave period, students are no longer guaranteed reinstatement and must follow normal readmission procedures if they wish to attempt to return to college.

Major Declaration

Undeclared majors should declare a major by the time they have earned 48 semester hours. Students are expected to complete the major for which they apply within the normal number of semester hours required for completion of the degree program. For most undergraduate degree programs, this is 128 semester hours; however, certain programs require more than 128 semester hours. Students may accrue more than the number of credits usually required for completion of the degree as a result of changing majors but will not be permitted to accrue additional credits for the purpose of establishing additional majors or minors. Students expecting to establish additional majors or minors beyond the normal number of credits required for completion of the degree are required to obtain permission from the Vice President for Academic Affairs. Students may not declare additional majors or minors after they have applied for final evaluation for graduation.

Pass/Fail Grading

The Pass/Fail grading option is available to Montclair State College undergraduates only. Its purpose is to encourage students to explore unfamiliar areas of study without concern for the effect on academic standing.

1. Students may select the Pass/Fail option for one course per semester, not to exceed a total of 24 semester hours in the degree program.
2. Courses which may not be taken on a Pass/Fail basis include those that meet major, minor, collateral, teacher certification, or communication requirements.
3. Courses offered on a Pass/Fail basis only do not preclude an individual from also taking an additional course under the Pass/Fail option.
4. Students receive either a grade of "P" or "F" for course work completed under the Pass/Fail option. A grade of "P" does not affect the student's average; however, a grade of "F" has the same effect as any other failing grade on the academic average.
5. Once the Pass/Fail option is elected by a student, it may not be rescinded. Letter grades will not replace "P" grades if changing majors, attending graduate school, applying for certification, or applying for admission to other colleges requiring letter grades.

Any student electing the Pass/Fail option is required to complete a *Pass/Fail Application* form and return it to the Office of the Registrar.

Plagiarism

All papers, reports and research submitted by students shall be their own except as properly annotated. The copying or imitating of others' work is plagiarism. A student guilty of plagiarism may be subject to dismissal.

Privacy Act

The Family Education Rights and Privacy Act of 1974 (Buckley Amendment) permits the College to release directory information about a student unless the student specifically requests that this information be withheld. Students who do not wish directory information to be released should notify the Office of Vice President for Student Affairs within the first two weeks of each semester.

Registration

General course selection for in-coming students at Montclair State College is accomplished through an advanced registration procedure. Students will receive registration materials in their departments or through the mail and should return them properly completed to the Office of the Registrar. Since the master schedule is developed and administered through a series of data processing steps, students are urged to read registration materials thoroughly before completing registration forms. Students should consult their faculty advisor or school counselor for assistance with this activity.

Repeated Courses

A student should repeat a failed course as soon as possible.

To repeat a course a student must register, make payment for that course and file a Repeat Course card with the Office of the Registrar. There is no special approval required to repeat a course in which a grade of "F" was received. A course repeated at another institution does not remove a "D" or "F" at Montclair State College.

A student must repeat a failure if the course is required for graduation. When a course has been repeated, both the original and subsequent courses are included on the permanent record, but the credit is counted only once. The grade received in the repeated course becomes the official final grade. Generally, students may not repeat courses in which grades of "D" were received. A student may repeat a sequential course in which a grade of "D" was received with the approval of the department chairperson in which the course was taken as well as approval of the Vice President for Academic Affairs, providing permission is obtained prior to registration. Only the first half of a sequential course with a grade of "D" may be repeated and shall be done prior to taking the second half. The regulations for failed courses also apply to a repeated course in which a grade of "D" was received. Courses in which the student received grades other than "D" or "F" cannot be repeated. Repeated course forms are available in the Office of the Registrar.

Residence Requirements

A minimum of 32 credit hours of the total required for the baccalaureate degree must be completed at Montclair State College. The final 24 credit hours required for graduation must be taken at Montclair State College and cannot be acquired through transfer.

Any student who transfers from another institution with advanced standing in a major field of study is required to complete a minimum of twelve credit hours of upper level course work in the major at Montclair State College. Some curricula may require more than this minimum.

Retention Standards

All undergraduate students whose cumulative grade point average (GPA) or previous semester GPA is below 2.00 are automatically on probation. The students on probation are not permitted to remain in the College for more than two consecutive semesters. Full-time undergraduates are expected to earn an average of 12 semester hours per semester of attendance.

Students are subject to non-retention if the cumulative GPA is below minimum retention for the number of semester hours earned. Semester hours earned include all courses passed at Montclair and any credits earned through transfer, credit by examination or assessment.

	Total Semester Hours Earned		
	0-57	58-89	90 plus
Minimum Retention	1.60	1.80	2.00
Academic Furlough	1.40-1.59	1.60-1.79	1.80-1.99
Academic Suspension	1.00-1.39	1.20-1.59	1.40-1.79
Academic Dismissal	0-.99	0-1.19	0-1.39

Furlough

Academic furloughs may be granted to students whose cumulative GPA is below retention (not more than 0.20 below) and/or are not making satisfactory progress for the degree. When a student is on academic furlough, he or she may not take course work at Montclair State.

Students granted an academic furlough are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the Academic furlough. Readmission is automatic.

A student who is readmitted from academic furlough is given two semesters to raise the cumulative GPA to retention level and make satisfactory progress towards the degree. If the student does not perform at a 2.00 level the first semester back or is not at retention level after two semesters, the student is given an academic dismissal.

Suspension

Academic suspensions are given when a student's cumulative GPA is below retention level and/or is not making satisfactory progress for the degree. When a student is on academic suspension, he or she may not take course work at Montclair State.

Students granted an academic suspension are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the academic suspension. Readmission is not automatic. It is based on the probability of success in the chosen major and upon the space available at the time.

Retention requirements after readmission from academic suspension are the same as those listed above for academic furlough.

Dismissal

Academic dismissals are given to students whose cumulative GPA is more than 0.60 below retention level or to students who have returned from furlough and suspension and did not achieve at a suitable level. A student placed on academic dismissal is not eligible to return to the College.

Student Responsibility

The College expects students to assume responsibility for knowing and meeting the various regulations and procedures set forth in the College catalogs. The College reserves the right to terminate the enrollment of any student whose conduct, class attendance, academic record or financial obligation should prove unsatisfactory.

Transcripts

To obtain a transcript, students must complete a transcript request form, available through the Office of the Registrar. A fee of \$2.00 per copy (both undergraduate and graduate records for same student are considered one copy) is payable in advance to Montclair State College. If 5 or more transcripts are requested at one time, the fee shall be \$10.00. Please allow 15 working days for processing of all transcript requests. Additional time should be allowed for transcripts processed at the conclusion of each College session.

Transfer Credit

MSC undergraduate students who wish to take courses at another institution and transfer the credits to MSC must obtain permission from their department chairperson prior to enrollment in the course(s) they wish to transfer. Students without a major must obtain permission from the Office of Vice President for Academic Affairs. All accepted credits will be listed, without grades, on the student's permanent record. Grades earned at other institutions are not included in cumulative average. However, transfer credit hours are used in determining the student's level.

All specific requirements for the degree must be completed even though this may involve more than that expected by the student at the time of transfer. Courses with grades of "D" or "F" are not accepted for transfer credits.

Transfer Credits

Non-Accredited Institutions and Credit by Examination

To receive evaluated credit, those students transferring from institutions not regionally accredited or receiving credit by examination shall:

1. In the first semester, a full-time student shall earn a minimum of 12 semester-hours with a minimum grade-point-average of 2.00.
2. A part-time student shall earn a minimum of 12 semester-hours in the first 14/15 semester-hours attempted and with a minimum cumulative grade-point-average of 2.00.

Undergraduates in Graduate Courses

MSC seniors within 16 hours of completing bachelor degree requirements, who possess at least 2.67 grade point average and have taken all required prerequisites, may take up to 6 hours of 500 level courses if prior permission is granted. The form for this is obtainable at the Graduate Studies Office. If courses are taken for graduate credit, graduate tuition and fees will be charged.

Admission of an undergraduate to a graduate (500 level) course does not imply future acceptance into any graduate program. That can only be done by a separate admission process. Those planning to matriculate in graduate programs at the College should refer to the Graduate Catalog for specific test requirements.

Veterans Credit

All veterans who completed a minimum of six months active duty are eligible to receive 3 elective credits, one of which fulfills that one semester physical education requirement. Applications to receive these credits are available from the Veterans Office (201-893-5180).

Withdrawal from Courses

Students who wish to withdraw from courses must complete the withdrawal form or send a written notice to the Office Registrar. (Notification to the instructor or a "Stop Payment" of a check does not constitute an official withdrawal from the College.) Upon receipt of the withdrawal notice, students will be given or sent acknowledgement. Any student who fails to receive such acknowledgement within two weeks should immediately notify the Office of the Registrar. Withdrawals are computed from the date of receipt of the written notice. Students who do not submit a written notice will receive the mark of "F" in those courses which they cease to attend. See the current Schedule of Courses booklet for deadline dates.

Withdrawal from College

A full-time undergraduate student wishing to withdraw from the College must complete an official withdrawal form in the Office of Vice-President for Student Affairs. If the student is a minor, the signature of a parent or guardian is required on the withdrawal form. Strict adherence to the withdrawal procedure is necessary for possible readmission.

Students who find it necessary to withdraw after the midpoint of the semester for medical reasons or personal emergency must petition the Registrar in writing, and provide supporting documentation.

Requirements for the Undergraduate Degree

The academic program of this College has been designed to provide each student with an in-depth experience in a major program, a sequence of courses to develop basic communication skills, and a series of general education courses to expose the student to the breadth and methods in the various fields of human knowledge. The structure of the general education program is designed to provide the best comprehensive liberal arts education for all students.

The following pages provide a description of the degree program requirements, an outline of the general education program required of all students, and a description of the teacher certification sequence for those students who choose to take that option.

These requirements are basic and should be a major part of the first two years of a student's undergraduate program. Departmental curriculum guides provided for your major course sequence should also be consulted.

In addition to the requirements stated above, the Board of Higher Education has mandated that a series of Basic Skills Tests be administered to all incoming students. If the student is found to have deficiencies in the areas of reading, writing, or basic mathematical skills, remedial courses are required and the student is expected to meet minimum standards during the first year of attendance at the College.

General Education Requirement

.....	34-58 Semester Hours
B.A./B.S.	58 Semester Hours
B.F.A./B.Mus	34 Semester Hours

Major Field

.....	32-55 Semester Hours
-------	----------------------

Electives

.....	15-38 Semester Hours
Minorities Culture Requirement (one course)	
College Writing Requirement	
Minimum number of semester hours required for graduation	128 Semester Hours

Teacher certification requirements involve use of 27-28 semester hours of the electives. Some teacher certification and other major programs require completion of more than 128 semester hours prior to graduation. For details on specific programs, consult the academic programs section of this catalog and the program worksheets prepared by the school counselor. General information on teacher certification may be found in the program outlined by the department of Curriculum and Teaching in this catalog.

General Education Requirement (GER)

The General Education Requirement at Montclair State College is among the most comprehensive in area colleges and universities. On completion of the requirement, one will enjoy the benefits of the best of the traditional liberal arts curriculum: facility in a foreign language, a sense of history, a perspective on social sciences, a familiarity with the humanities and arts, and an understanding of mathematical and scientific principles and some of their contemporary applications. Beyond these traditional areas, one will have had the opportunity to study a major non-Western culture and several non-Western literary masterpieces. At least one important contemporary issue will have been examined in depth, and an introduction to computers will have been provided.

The courses taken to fulfill this requirement are designed to impart not merely information, but techniques of problem solving and analytical thinking. Primary readings in the work of classical thinkers and substantial writing assignments will be featured in nearly every course. Whenever possible, professors will show how several academic disciplines bear on a single problem or topic.

The General Education Requirement dedicates some of the major resources of the College to the benefit of introductory students. Combining the strength of the liberal arts curriculum with a contemporary approach to social and technological change, it supplies a valuable balance to any major program.

The following General Education Requirements apply to full-time freshmen and part-time students who begin their studies at Montclair State College in Summer/Fall, 1984 or thereafter. These requirements are subject to change. Periodic visits to your school counselor are strongly recommended to avoid difficulties in meeting graduation requirements.

Bachelor of Arts and Bachelor of Science

It is recommended that, whenever possible, a student complete the General Education Requirement during the first two years of study.

The Appendix of Courses which fulfill the individual categories of the General Education Requirement can be found on page 23.

The same course may be used to satisfy both GER and major, certification, or minorities culture requirements, if it has been approved for these purposes, except that courses in a student's major department may not be used to satisfy the "General Education Electives" requirement described in section J below.

A. Communication

9 Semester Hours

Writing

A course in composition which will help develop the ability to express oneself clearly, to convey information fully and concisely, to persuade others effectively in critical reading of literature, and to write college-level papers, using standard library techniques and appropriate documentation and style.

Reading

A course in the reading of imaginative literature, stressing comprehension, interpretation, analysis, and appreciation; the course is designed to impart skills in critical reading of literature, and a greater understanding of how literature provides insight into human values, self-understanding, and social awareness.

Speaking/Listening

A course in the comprehension and expression of the spoken American-English language. As a result of this course, students will understand oral communication as a process; they will speak more effectively and persuasively, will be more creative, active, and critical listeners.

B. Contemporary Issues

3 Semester Hours

An interdisciplinary course on a major contemporary issue, with a problem-to-solution emphasis. The outcome of the course should be a recognition of the complex nature of such problems (including their moral and ethical implications), and an awareness of their possible realistic solutions.

C. Fine and Performing Arts:

Art Appreciation

3 Semester Hours

A course in the inherent styles and qualities of a particular art form, designed to provide familiarity with important masterpieces in an historical and stylistic context, an understanding of the processes involved in creating art, and an ability to recognize and appreciate excellence.

D. Foreign Language

6 Semester Hours

A two-course sequence in a foreign language, with emphasis on reading, speaking, and writing skills. The skills, valuable in themselves, will enhance an understanding of the ways in which language reflects cultural values and traditions.

Note: Placement examination is required.

E. Humanities

6 Semester Hours

1. World Literature or General Humanities: 3 Semester Hours

World Literature

A course in major works of world literature from Western and non-Western literary traditions. Taking the course will provide you with an expanded awareness of national and international cultural concerns, as well as a heightened sensitivity to literature.

General Humanities

An interdisciplinary course in General Humanities with emphasis on the great questions which have concerned and inspired artists and thinkers throughout the ages. The course will provide you with greater knowledge of the range of humanistic achievement in several areas of creative endeavor, and a deeper understanding of the values of different civilizations.

2. Philosophy/Religion: 3 Semester Hours

A course in philosophy or in religion which emphasizes a critical and creative response to specifically philosophical or religious ideas, arguments, and perspectives. The course will introduce great philosophical or religious thinkers and works, and will afford a broader perspective on the human condition.

F. Mathematics

5 Semester Hours

1. Mathematics: 3 Semester Hours

A course in mathematics as a tool of scientific investigation and as a significant part of our heritage, stressing an appreciation of mathematics as a tool for problem solving and analysis, and a greater ability to think precisely and logically.

2. Computer Science: 2 Semester Hours

A course illustrating the use of the computer as an indispensable problem-solving tool in modern society, stressing the development of computer literacy.

G. Natural/Physical Science

7 Semester Hours

1. Laboratory Science: 4 Semester Hours

2. Non-Laboratory Science: 3 Semester Hours

Two courses in natural/physical science, at least one with a laboratory component. The courses are designed to provide the ability to appreciate and utilize the scientific method. Selected findings in a particular field, the methods employed to obtain them, their historical and contemporary significance, and some of their applications will be emphasized in each course.

H. Physical Education

1 Semester Hour

A course in a particular sport or physical activity designed to improve skills in that activity, and to impart a better understanding of how regular exercise improves the quality of life.

I. Social Science

12 Semester Hours

1. American or European History: 3 Semester Hours

A course in American or in European history. The course will help students understand long-range historical developments in either the United States or Europe and, in a broader sense, will provide the perspectives on the influence of the past in shaping contemporary conditions.

2. Non-Western Cultural Perspectives: 3 Semester Hours

A course in the culture or civilization of indigenous peoples in Africa, Asia, or the Americas. Completing this requirement will provide important insights into the development of cultures not influenced in their formative stages by Western civilization.

3. Social Science (other than History): 6 Semester Hours

Two courses in social sciences other than history.

a. A social science survey course will introduce the assumptions, principles, and methodologies of a particular social science discipline.

b. A social science topical course will focus on a particular theme, problem, or issue in the social sciences.

Students who complete this requirement will have a better grasp of the analytical techniques and methods of inquiry in the social and behavioral sciences, and of their importance in understanding ourselves, our society, and the world.

J. General Education Electives

6 Semester Hours

1. GER approved courses (other than Physical Education)

2. General introductory courses at the 100-level or 200-level in any department in the schools of Fine and Performing Arts, Humanities and Social Sciences, and Mathematics and Natural Sciences.

3. Courses in the areas of Creative Expression and/or Personal/Professional Issues

Creative Expression

An elective course in the creative process in a particular art form.

A creative expression course will afford the opportunity to be personally involved in a creative activity; gain insights into both the technical difficulties and the creative choices which artists face. One should develop not only a lifelong appreciation of the arts, but also remain an active participant.

Individual and Professional Issues

An elective course in personal or professional development. Taking one of these courses should provide a better understanding of oneself, teach one how to interact with others more effectively, or gain a more developed perspective on career choices.

Note: General Education Electives must be taken outside the student's major.

Bachelor of Fine Arts and Bachelor of Music

It is recommended that, whenever possible, a student complete the General Education Requirement during the first two years of study.

The Appendix of Courses which fulfill the individual categories of the General Education Requirement can be found on page 23.

The same course may be used to satisfy both GER and major, certification, or minorities culture requirements, if it has been approved for these purposes.

A. Communication Writing

9 Semester Hours

A course in composition which will help develop the ability to express oneself clearly, to convey information fully and concisely, to persuade others effectively in critical reading of literature, and to write college-level papers, using standard library techniques and appropriate documentation and style.

Reading

A course in the reading of imaginative literature, stressing comprehension, interpretation, analysis, and appreciation; the course is designed to impart skills in critical reading of literature, and a greater understanding of how literature provides insight into human values, self-understanding, and social awareness.

Speaking/Listening

A course in the comprehension and expression of the spoken American-English language. As a result of this course, students will understand oral communication as a process; they will speak more effectively and persuasively, will be more creative, active, and critical listeners.

B. Contemporary Issues

3 Semester Hours

An interdisciplinary course on a major contemporary issue, with a problem-to-solution emphasis. The outcome of the course should be a recognition of the complex nature of such problems (including their moral and ethical implications), and an awareness of their possible realistic solutions.

C. Fine and Performing Arts: Art Appreciation

(Not Applicable)

D. Foreign Language

6 Semester Hours

A two-course sequence in a foreign language, with emphasis on reading, speaking, and writing skills; increased cultural understanding. The skills, valuable in themselves, will enhance an understanding of the ways in which language reflects cultural values and traditions.

Note: Placement examination is required.

E. Humanities

3 Semester Hours

Philosophy/Religion

A course in philosophy or in religion which emphasizes a critical and creative response to specifically philosophical or religious ideas, arguments, and perspectives. The course will introduce great philosophical or religious thinkers and works, and will afford a broader perspective on the human condition.

F. Mathematics

2 Semester Hours

Computer Science

A course in the use of the computer as an indispensable problem-solving tool in modern society, stressing the development of computer literacy, i.e., the ability to perform basic tasks in a standard computer language.

G. Natural/Physical Science

4 Semester Hours

Laboratory Science

A course in natural/physical science with a laboratory component. The course is designed to provide the ability to appreciate and utilize the scientific method. Selected findings in a particular field—the methods employed to obtain them, their historical and contemporary significance, and some of their applications will be emphasized in the course.

H. Physical Education

1 Semester Hour

A course in a particular sport or physical activity designed to improve skills in that activity, and to impart a better understanding of how regular exercise improves the quality of life.

I. Social Science

6 Semester Hours

1. American or European History: 3 Semester Hours

A course in American or in European history. The course will help students understand long-range historical developments in either the United States or Europe and, in a broader sense, will provide perspectives on the influence of the past in shaping contemporary conditions.

2. Social Science (other than History): 3 Semester Hours

A course in social sciences other than history.

a. A social science survey course will introduce the assumptions, principles, and methodologies of a particular social science discipline.

b. A social science topical course will focus on a particular theme, problem, or issue in the social sciences.

Students who complete this requirement will have a better grasp of the analytical techniques and methods of inquiry in the social and behavioral sciences, and of their importance in understanding ourselves, our society, and the world.

J. General Education Electives

(Not Applicable)

Major Field

Since one of the main purposes of an arts and science program is to give the student a broad general education, requirements for an arts and science major are generally limited to 32-55 semester hours. Requirements for major programs vary; a number of these major programs have "tracks" or concentrations. For details on specific programs, consult the academic programs section of this catalog and the program work sheets prepared by the school counselor.

Free Electives

Students may fulfill their remaining credits for a minimum of 128 semester hour degree requirements through the selection of any other courses. Students may also choose a minor in a field by taking the appropriate course work as part of their free electives. They may also use electives to meet the teacher certification requirements.

Minorities Culture Requirement

The purpose of the Minorities Culture Requirement is to ensure that all graduates of MSC be acquainted with the life, history, and cultural contribution of a group recognized by the larger society as constituting a disadvantaged subculture in the U.S. * Even though women do not represent a statistical minority, they have shared "minority" status and are considered as part of the group recognized by this requirement.

*Race and ethnicity as defined by the Equal Employment Opportunity Commission

1. Blacks
2. Hispanics
3. American Indians or Alaskan Natives
4. Asian/Pacific Islanders

The following is a listing of the courses which meet this requirement. Certain of the courses listed below may simultaneously be used to meet the General Education Requirements and/or the Human and Intercultural Relations Requirement for Teacher Education, *if they are included on the approved list of these courses.*

C	2204 415	The Economics of Social Problems
E	0506 332	Minorities in Business
G	1003 275	Afro-American Art
G	1003 458	Traditional Arts of Sub-Saharan Africa
H	1005 150	Influence of Afro-American Culture on Music
H	1005 209	Introduction to Jazz
H	1005 309	The Art of Jazz
I	1008 345	Dance Techniques-Ethnic
J	2202 100	Cultural Anthropology
J	2202 200	Urban Anthropology
J	2202 206	Human Variation
J	2202 301	Peoples of Africa
J	2202 302	Native Latin Americans
J	2202 305	Native North Americans
J	2202 307	Ethnology of Southeast Asia and Oceania
J	2202 311	Anthropology of American Subcultures
J	2202 415	Women in Traditional Society
K	4903 186	Myths and Images of Women in French Literature
K	4903 381	Africa in Classical Antiquity
K	4903 383	Women in Antiquity
K	4903 399	Development of Black Thought
M	1501 238	Afro-American Writers
M	1501 294	Women Poets
M	1503 266	African Myth and Literature
N	0308 100	The Many Worlds of Latin America: Interdisciplinary Perspectives
N	2206 206	Introduction to American Urban Studies
N	2206 301	Urban Field Studies
N	2206 308	Land and Life in Latin America
N	2206 313	Urban Geography
P	2205 108	Introduction to African Civilization
P	2205 114	Early Latin American Civilization
P	2205 115	History of Puerto Rico
P	2205 131	Introduction to Indian Civilization
P	2205 132	Introduction to Chinese Civilization
P	2205 133	Modern Chinese Civilization
P	2205 205	Minorities in American History
P	2205 215	Women in American History
P	2205 217	History of Black Americans
R	1509 237	Oriental Philosophy
R	1599 212	Oriental Religions
R	1599 210	Religion of the North American Indians
R	1599 267	Women in Religion
S	2207 214	Women in Politics
S	2207 308	Ethnic Politics in America
S	2207 402	Government and Politics of Africa
S	2207 403	Government and Politics of China and Japan
S	2207 404	Government and Politics of India and South Asia

S	2207 405	Government and Politics of Latin America
S	2207 411	The Politics of Race
T	2001 102	Woman's Worlds
T	2001 231	Psychology of Aggression
T	2001 265	Psychology of Women
T	2001 345	Mental Health Issues of Hispanic Americans
U	2208 202	Racial and Ethnic Relations
U	2208 205	Black Family
U	2208 213	Social Stratification
U	2208 311	Urban Sociology
U	2208 430	Sociology of Sex Roles
V	1105 270	Spanish-American Cultural History*
V	1105 280	Cuban Cultural History
V	1105 360	Hispanic Community Program
V	1105 472	Puerto Rican Literature and Thought*
V	1105 475	Seminar on Hispanic Culture in the U.S.*
2	0842 335	The Legal Rights of Women
1	0829 412	Field Work in Urban Education
1	0829 423	Teaching in Urban Schools
3	0821 264	Sexism in American Education
3	0821 445	Puerto Rican Children in Mainland Schools
4	0840 355	Media in Intercultural Communication
6	1301 205	Women in Contemporary Society
6	1305 445	The Inner City Family

*Taught in Spanish

College Writing Requirement

Written work is an important part of the College curriculum because writing offers students the opportunity to think deeply and searchingly about their subjects and because skill in written expression is crucial to the welfare of both individuals and society. The College policy regarding written work includes the following requirements and provisions:

1. The document "Minimum Standards for Written Work," which is available from all academic departments, outlines in a general way the College's expectations concerning the content, organization, and format of written assignments. These provisions may be supplemented by departmental writing policy statements or by those of individual instructors.
2. As part of the General Education Requirement, each student must satisfy the communication requirement in writing, usually by taking Freshman Composition.
3. Writing is an important part of course requirements throughout the College (*minimum*: 1,500 to 2,000 words per course). This work may take such forms as essay examinations, research papers, laboratory reports, critical essays, and so forth.
4. All students must satisfy a graduation requirement in writing. Each department must evaluate the writing ability of its majors by means of a required course (or choice of courses) with substantial writing assignments. Normally this course should be taken in the junior year. Students with serious writing problems will be referred to the Writing Workshop and may not graduate until those problems have been eliminated. Students should consult their school counselor or major department chairperson regarding this course and other aspects of the department's writing policy.
5. The Writing Workshop (Life Hall, Room 230) offers consultation and tutorial help to all students with writing problems. There is no charge for this service.



Basic Skills Requirement

1. All students must demonstrate proficiencies in writing, reading, mathematics, and speech which are compatible with the successful performance of college level work. The MSC Basic Skills Requirement provides for the demonstration of such proficiencies through a program of skills assessment and academic development.
2. The New Jersey College Basic Skills Placement Test is Administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State College will be assigned a test date, and registration will not be completed for entering freshman students until the Basic Skills test scores are in. That is, no entering student may expect to receive a first semester class schedule until he or she has taken the NJCBSPT or had the NJCBSPT scores transferred to the MSC Basic Skills Office from a college previously attended. Transfer students may be required to present verification of upper class standing to the Basic Skills Office prior to receiving a class schedule.
3. The Basic Skills requirement in Reading, Writing, and Mathematics may be fulfilled by achieving satisfactory scores on the appropriate sections of the NJCBSPT.
4. Students receiving low scores on the various sections of the NJCBSPT will have credits added to the number of semester hours required to graduate. Developmental courses in reading, writing and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT.
5. Students are expected to take required developmental courses during their first semester at MSC and *must* satisfactorily complete these courses within the first year of enrollment (full-time students) or within two years of enrollment (part-time students). No student may withdraw from a developmental course, and any student will be dismissed from MSC who does not satisfactorily complete the required developmental course(s).
6. Since the Mathematics Department has Basic Skills prerequisites for all of its courses, students will not receive credit for any mathematics course if the Basic Skills requirement has not been satisfied.
7. The MSC Basic Skills requirement in Speech must be fulfilled within a student's first 58 semester hour credits by:
 - A. Satisfactory completion of the Speech Communication Requirement.
 - OR
 - B. Successful Speech Placement/Waiver evaluation: Application for this examination can be made in early October or early February at the Department of Speech and Theatre. Passing the examination *does not* grant semester hour credit, only satisfaction of the Speech requirement.
8. All questions about Basic Skills should be addressed to the Basic Skills Office, Richardson Hall, Room 207, telephone (201 893-4476).

Teacher Certification Requirements

A. General Education

Students interested in teacher certification complete the same general education program as other students at the College. It should be noted, however, that certain courses meet both general education *and* teacher education requirements. These are noted in the section on the professional sequence below, and are recommended if you wish to complete your program with the minimum of semester hours.

B. Special Requirements

Students who intend to prepare for teaching should fulfill the following special requirements prior to formal admission to the certification program.

Human and Intercultural Relations Requirement

This requirement focuses on social interaction, intergroup relations, and the culture of minorities in the inner city. A course must be selected from the following list. All of these courses also fulfill the Minorities Culture requirement. Certain courses listed below may simultaneously be used to meet General Education Requirements, *if they are included in the General Education Requirement Appendix of Courses.*

C	2204 415	The Economics of Social Problems
E	0506 332	Minorities in Business
J	2202 200	Urban Anthropology
J	2202 311	Anthropology of American Subcultures

M 1501 238	Afro-American Writers
N 2206 313	Urban Geography
P 2205 217	History of Black Americans
S 2207 308	Ethnic Politics in America
S 2207 411	The Politics of Race
U 2208 202	Racial and Ethnic Relations
U 2208 205	Black Family
U 2208 311	Urban Sociology
V 1105 360	Hispanic Community Program
1 0829 423	Teaching in Urban Schools
3 0821 445	Puerto Rican Children in Mainland Schools
4 0840 355	Media in Intercultural Communication
6 1305 445	The Inner City Family

Speech Proficiency Requirement—Competence in speech must be demonstrated by completing Fundamentals of Speech: Communications Requirement or by passing an examination administered by the Speech and Theatre Department.

Examination in Physiology and Hygiene—This requirement may be satisfied by presenting college study in such areas as biology, personal health problems, community health, school health, family health, health counseling, nutrition or health administration or by taking an examination administered by the State Department of Education. This requirement does not apply in the fields of art, health education, home economics, industrial education, music, physical education, and vocational education.

C. Admission to Teacher Education

All students who intend to prepare for teaching must make a formal application for admission to the teacher preparation program. It is recommended that students apply at the beginning of the second semester of the sophomore year. Application forms may be obtained by interested students from their respective departments or from the Coordinator of Teacher Admissions, School of Professional Studies. The application will be screened by a faculty committee and only those applicants who meet the admission criteria will be accepted. The criteria are stated in this catalog under the Department of Curriculum and Teaching.

D. Professional Sequence for Teacher Education Certification

Students cannot register for 0829 courses in the professional sequence until *admitted* to the Teacher Education Program. Five semesters, including the semester of acceptance, are required to complete the professional sequence. This is the general pattern for teacher certification programs. Some require additional methods courses. You are encouraged to consult a departmental advisor early in your program.

FRESHMAN YEAR

T 2001 101	General Psychology I: Growth and Development	3 Semester Hours
(MEETS GENERAL EDUCATION REQUIREMENT FOR SOCIAL SCIENCE COURSE)		

SOPHOMORE YEAR

3 0821 220	Philosophical Orientation to Education	3 Semester Hours
(MEETS GENERAL EDUCATION REQUIREMENT FOR PHILOSOPHY COURSE)		
T 2001 200	Educational Psychology	3 Semester Hours
(MEETS GENERAL EDUCATION REQUIREMENT FOR SOCIAL SCIENCE COURSE)		
1 0829 200	Initial Field Experience	1 Semester Hour

JUNIOR YEAR

1 0829 410	Intermediate Experience in Education	1 Semester Hour
	Departmental Methods Course	4 Semester Hours
4 0830 407	Developmental Reading Part I	3 Semester Hours
4 0830 408	Developmental Reading Part II	3 Semester Hours
1 0829 400	Teacher, School, and Society	3 Semester Hours

SENIOR YEAR

Professional Semester Package, including student teaching			13 Semester Hours
1 0829 435	Effective Teaching/Productive Learning		2 Semester Hours
1 0829 401	Senior Field Experience		1 Semester Hour
1 0829 402	Seminar in Professional Education		1 Semester Hour
	Departmental Seminar		1 Semester Hour
1 0829 411	Supervised Student Teaching		8 Semester Hours

Note: You are urged to consult frequently with a departmental advisor or the chairperson of the Department of Curriculum and Teaching.

General Education Requirement

Appendix of Courses

The following courses fulfill the General Education Requirement for full-time freshmen and part-time students who begin their studies at Montclair State College in Summer/Fall, 1984 or thereafter. Refer to the Legend of Departmental Codes on page 26 in order to determine which department offers the course.

GENERAL EDUCATION REQUIREMENT COURSES

COMMUNICATION

Writing

M 1501 105	Freshman Composition
------------	----------------------

Reading

M 1501 106	Introduction to Literature
4 0830 105	Reading: Communicating Through Text

Speaking/Listening

1 1506 101	Fundamentals of Speech: Communications Requirement
L 1220 101	Fundamentals of Speech: Communications Requirement

CONTEMPORARY ISSUES

E 0506 363	Business and Society
J 2202 206	Human Variation*
J 2202 214	Conflict and Violence
J 2202 311	Anthropology of American Subcultures*†
K 4903 176	Italians and Italian-Americans: Comparative Studies
N 2206 109	The Human Environment
Q 1505 250	Language of Propaganda
T 2001 102	Woman's Worlds*
T 2001 109	The Human Environment
T 2001 231	Psychology of Aggression*
T 2099 245	Introduction to Community Psychology
U 2208 113	Social Problems
U 2208 209	Sociology of Poverty and Welfare
U 2208 211	Sociology of Health and Illness
U 2208 216	Sociology of Food and Population
U 2208 218	Sociology of Population
W 0401 212	Genetics, Individual and Society
Z 1914 221	Conservation of National Resources
3 0821 264	Sexism in American Education*
3 0821 477	Ethnic/Racial Groups and the Schools in America
4 0840 355	Media in Intercultural Communication*†
5 0837 213	Perspectives on Drugs
6 1301 205	Women in Contemporary Society*
6 1301 344	Challenge of Aging
6 1304 270	Individual Management: Theories and Strategies
6 1305 445	The Inner City Family*†
6 1306 153	Food and People
7 0839 101	Technology and Culture: Past, Present and Future
7 0990 284	Alternate Energy
8 0835 227	Social Problems in Sports

*Meets Minorities Culture Requirement.

†Meets Human and Intercultural Relations Requirement for teacher certification.

FINE AND PERFORMING ARTS: ART APPRECIATION

G 1001 100	Introduction to the Visual Arts
G 1003 105	Art and Civilization I
G 1003 106	Art and Civilization II
G 1003 108	Women in Art
G 1003 215	Ancient Art
G 1003 217	Selected Masterpieces of World Art
G 1003 220	Art in Non-Western Societies
G 1003 275	Afro-American Art*
G 1003 327	History of Oriental Art
G 1003 328	Survey of Greek Art
G 1003 450	Modern Architecture
G 1010 299	History of Cinema as Art
G 4921 230	History of the Print
H 1005 100	Introduction to Music
H 1005 160	Introduction to Music in World Cultures
H 1005 209	Introduction to Jazz*
H 1005 236	The American Musical
H 1005 237	The Opera
H 1005 238	Orchestral Literature
H 1005 240	Music of the Romantic Period
I 1007 100	Introduction to the Theatrical Medium
I 1008 105	Dance Appreciation
I 1008 210	History of Dance
I 1099 100	Introduction to the Fine and Performing Arts
K 4903 196	Introduction to the Film
K 4903 288	Music and Art in French Civilization

FOREIGN LANGUAGE

K 1109 101	Beginning Latin I
K 1109 112	Beginning Latin II
K 1109 121	Intermediate Latin I
K 1109 132	Intermediate Latin II
K 1109 201	Latin Literature of the Republic
K 1109 202	Latin Literature of the Golden Age
K 1109 203	Latin Literature of the Silver Age
K 1110 101	Beginning Greek I
K 1110 112	Beginning Greek II
K 1110 121	Intermediate Greek I
K 1110 132	Intermediate Greek II
O 1102 101	Beginning French I
O 1102 112	Beginning French II
O 1102 121	Intermediate French I
O 1102 132	Intermediate French II
O 1102 145	Introduction to French Culture
O 1102 146	Readings in French Literature
O 1103 101	Beginning German I
O 1103 103	Beginning German I (Reading)
O 1103 112	Beginning German II
O 1103 114	Beginning German II (Reading)
O 1103 121	Intermediate German I
O 1103 123	Intermediate German I (Reading)
O 1103 132	Intermediate German II
O 1103 134	Intermediate German II (Reading)
O 1103 151	Advanced German I
O 1103 152	Advanced German II
O 1103 251	Introduction to German Literature I
O 1103 252	Introduction to German Literature II
O 1103 351	German Civilization I
O 1103 352	German Civilization II
O 1106 101	Beginning Russian I
O 1106 112	Beginning Russian II
O 1106 121	Intermediate Russian I
O 1106 132	Intermediate Russian II
O 1106 141	Advanced Russian I
O 1106 152	Advanced Russian II
Q 1505 210	Introduction to General Linguistics
V 1104 101	Italian I
V 1104 102	Italian II
V 1104 103	Italian III
V 1104 104	Italian IV
V 1104 160	Italian Cultural History I
V 1104 161	Italian Cultural History II

*Meets Minorities Culture Requirement.

†Meets Human and Intercultural Relations Requirement for teacher certification.

V 1104 240	Studies in Italian Literature: Origins to 18th Century
V 1104 241	Italian Literature: 18th through 20th Centuries
V 1105 101	Spanish I
V 1105 102	Spanish II
V 1105 103	Spanish III
V 1105 104	Spanish IV
V 1105 120	Comprehensive Spanish I and II
V 1105 140	Comprehensive Spanish III and IV
V 1105 145	Readings in Hispanic Literature
V 1105 151	Masterpieces of Spanish Literature I
V 1105 152	Masterpieces of Spanish Literature II
V 1105 161	Masterpieces of Spanish-American Literature I
V 1105 162	Masterpieces of Spanish-American Literature II
V 1105 260	Spanish Cultural History
V 1105 270	Spanish-American Cultural History*
V 1105 280	Cuban Cultural History*
V 1198 101	Portuguese I
V 1198 102	Portuguese II
V 1198 103	Portuguese III
V 1198 104	Portuguese IV
V 1198 160	Masterpieces of Portuguese Literature
V 1198 162	Masterpieces of Brazilian Literature
V 1198 260	Luso-Brazilian Culture

HUMANITIES

World Literature or General Humanities

World Literature

M 1503 174	World Literature from the Earliest Times to 1600
M 1503 175	World Literature 1600 to the Present Day
M 1503 176	The Journey as Physical and Spiritual Quest
M 1503 177	Voices of Tradition and Voices of Challenge

General Humanities

G 1003 250	Modern Philosophies of Art
K 4903 201	General Humanities I
K 4903 202	General Humanities II
K 4903 285	Mythology

Philosophy/Religion

R 1509 100	Introduction to Philosophy
R 1509 102	Ethics
R 1509 104	Social and Political Philosophy
R 1509 106	Logic
R 1599 100	Religions of the World
R 1599 101	Introduction of Religion
R 1599 103	Religion and Moral Issues
R 1599 221	Religion and Culture
R 1599 269	Death and Dying: Religious Perspectives
3 0821 220	Philosophical Orientation to Education

MATHEMATICS

Mathematics

Y 1701 103	The Development of Mathematics
Y 1701 109	Statistics
Y 1701 116	Calculus A (1)
Y 1701 122	Calculus I (1)
Y 1701 221	Calculus II (1)

Computer Science

Y 0701 107	Computers and Society
Y 0702 183	Foundations of Computer Science I (1)

NATURAL/PHYSICAL SCIENCE

Laboratory or Non-Laboratory Science

W 0401 100	Biological Sciences
W 0401 103	General Biology I
W 0401 104	General Biology II
W 0401 110	The Biology of Human Life
W 0401 130	Invertebrate Zoology (1)
W 0401 131	Vertebrate Zoology (1)
W 0401 140	Biology of the Cell (1)
X 1905 100	Introductory Chemistry
X 1905 120	General Chemistry I (1)
Z 1902 100	Concepts in Science

(1) Recommended for students with strong math/science background.

Z	1902 105	Acoustics
Z	1902 191	General Physics I(1)
Z	1902 192	General Physics II (1)
Z	1902 193	College Physics I (1)
Z	1902 194	College Physics II (1)
Z	1914 107	Fundamentals of Geoscience
Z	1914 112	Physical Geology
Z	1914 114	Historical Geology

LABORATORY SCIENCE ONLY

W	0401 121	The Plant Kingdom (1)
---	----------	-----------------------

NON-LABORATORY SCIENCE ONLY

J	2202 101	Physical Anthropology
N	2206 100	Principles of Geography
W	0401 107	Biology for Survival
W	0401 109	Living World of Animals and Plants
Z	1914 108	Principles of Geology
Z	1914 157	Understanding the Weather
Z	4902 104	History of Science
Z	4902 106	Science and Society
Z	4902 110	Natural Disasters
Z	4902 162	General Oceanography
Z	4902 180	Descriptive Astronomy
5	0837 240	Foundations of Environmental Health
6	1306 182	Nutrition

PHYSICAL EDUCATION

8	0879 200	Beginning Swimming
8	0879 201	Springboard Diving
8	0879 202	Badminton
8	0879 203	Golf
8	0879 240	Platform Tennis
8	0879 242	Racquetball
8	0879 250	Intermediate Swimming
8	0879 251	Aerobic Activities
8	0879 252	Archery
8	0879 253	Gymnastics
8	0879 257	Weight Training and Conditioning
8	0879 258	Beginning Tennis
8	0879 260	Beginning Riding
8	0879 261	Fencing
8	0879 262	Volleyball
8	0879 263	Jogging
8	0879 264	Soccer
8	0879 265	Figure Skating
8	0879 266	Skiing
8	0879 267	Advanced Swimming
8	0879 268	Bicycling
8	0879 270	Folk and Square Dance
8	0879 271	Social Dance
8	0879 272	Bowling
8	0879 274	Scuba Diving
8	0879 275	Beginning Karate
8	0879 278	Yoga

SOCIAL SCIENCE

American/European History

K	4903 281	Greek Civilization
K	4903 282	Roman Civilization
P	2205 103	Foundations of Western Civilization
P	2205 105	Emergence of European Civilization 1500-1915
P	2205 106	Contemporary Europe 1914-Present
P	2205 110	Introduction to American Civilization
P	2205 111	Contemporary American Issues in Historical Perspective
P	2205 210	Selected Topics in American History to 1876
P	2205 211	Selected Topics in American History since 1876
P	2205 281	Greek Civilization
P	2205 282	Roman Civilization
7	0990 205	Historical Perspectives of American Industries-Field Study

**Meets Minorities Culture Requirement.*

†Meets Human and Intercultural Relations Requirement for teacher certification.

(1) Recommended for students with strong math/science background

Non-Western Cultural Perspectives

C	2204 303	Economic Growth and Development
J	2202 302	Native Latin Americans*
J	2202 305	Native North Americans*
J	2202 307	Ethnology of Southeast Asia and Oceania*
J	2202 310	Cultures of the Middle East
J	2202 312	Peasant Culture
N	2206 412	Geography of the Sub-Sahara Africa
N	2206 413	Geography of the Middle East
P	2205 108	Introduction of African Civilization*
P	2205 109	Introduction of Islamic Civilization
P	2205 114	Early Latin American Civilization*
P	2205 131	Introduction to Indian Civilization*
P	2205 132	Introduction to Chinese Civilization*
P	2205 223	Communist Revolution in China
P	2205 432	Development of Japanese Character and Culture
R	1599 210	Religion of the North American Indians*
T	2001 243	Psychology of Pan African Novels

Survey Courses

C	2204 100	Introduction to Economics
C	2204 101	Principles of Economics: Macro
C	2204 102	Principles of Economics: Micro
J	2202 100	Cultural Anthropology*
J	2202 203	Anthropological Linguistics
J	2202 205	Prehistoric Archaeology
N	2206 101	Introduction to Cultural Geography
T	2001 101	General Psychology I: Growth and Development
U	2208 100	The Sociological Perspectives

Topic courses

B	0838 101	Contemporary Business
C	2204 403	Comparative Economic Systems
C	2204 415	Economics of Social Problems*†
J	2202 200	Urban Anthropology*†
J	2202 202	Cultural Change and Modernization
T	2202 207	American Folk Culture
N	2206 206	Introduction to American Urban Studies*
N	2206 308	Land and Life in Latin America
N	2206 313	Urban Geography*†
Q	1505 245	Language and Culture
Q	1505 330	Sociolinguistics
S	2207 102	Institutions of American Government
S	2207 103	American Political Process
S	2207 200	Introduction to Politics
T	2001 105	The Psychological Study of Social Issues
T	2001 200	Educational Psychology
T	2001 201	Child Psychology
T	2001 202	Adolescent Psychology
T	2001 225	Psychology of Adjustment
T	2001 265	Psychology of Women*
U	2208 101	Criminology
U	2208 201	Social Structure of American Society
U	2208 202	Racial and Ethnic Relations*†
U	2208 204	Sociology of the Family
3	0821 440	Sociological Foundations of Education
6	1304 231	The Family in the Economic System
6	1305 140	Family in Society

ELECTIVES

Creative Expression

G	1001 103	Visual Arts Studio I
G	1001 104	Visual Arts Studio II
G	1001 107	Drawing I
G	1001 125	Multi-Media I
G	1001 215	Drawing II
G	1001 220	Life Drawing I
G	1001 225	Multi-Media II
G	1001 280	Life Drawing II
G	1001 311	Intermediate Papermaking I
G	1002 200	Painting I
G	1002 201	Painting II
G	1002 211	Sculpture I
G	1002 212	Sculpture II
G	1002 244	Sculpture: Modeling and Casting I
G	1002 245	Sculpture: Carving I

G 1002 246 Sculpture: Metal Casting I
 G 1002 247 Sculpture: Fabrication I
 G 1002 248 Sculpture: Welding-Brazing I
 G 1002 249 Sculpture: Clay I
 G 1002 250 Figurative Painting
 G 1002 254 Sculpture: Modeling and Casting II
 G 1002 255 Sculpture: Carving II
 G 1002 256 Sculpture: Metal Casting II
 G 1002 257 Sculpture: Fabrication II
 G 1002 258 Sculpture: Welding - Brazing II
 G 1002 259 Sculpture: Clay II
 G 1010 218 Film Making I
 G 1010 219 Film Making II
 G 1011 213 Photography I: A Contemporary Art Form
 G 1011 214 Intermediate Photography:
 A Contemporary Art Form
 G 1011 231 Humorous and Satirical Illustration
 for Publication
 G 1090 200 Leather I
 G 1090 202 Ceramics, Pottery and Sculpture I
 G 1090 203 Ceramics, Pottery and Sculpture II
 G 1090 204 Fibers and Fabrics I
 G 1090 205 Fibers and Fabrics II
 G 1090 206 Leather II
 G 1090 207 Surface Design I
 G 1090 210 Textile Design I
 G 1090 225 Surface Design II
 G 4921 120 Introduction to Printmaking
 G 4921 200 Introduction to Intaglio and Relief Printing
 G 4921 202 Introduction to Lithography
 H 1004 100 Class Piano for Non-Music Majors
 H 1004 103 Voice Class for the Non-Music Major
 H 1004 105 Modern Guitar Workshop
 H 1005 250 Sounds of the City
 H 1016 150 Fundamentals of Music for the Non-Major
 I 1007 122 Acting I
 I 1506 160 Oral Interpretation of Literature
 I 1506 363 Reader's Theatre

Personal/Professional Issues

B 0838 309 Personal Finance
 G 0831 250 Introduction to Art Therapy
 G 0831 310 Group Art Therapy and Creativity Development
 T 2001 103 Freshman Seminar
 U 2208 206 Individual and Society
 2 0826 482 Career Consciousness
 2 0842 330 Dynamics of One-to-One Communication
 2 0842 331 Group Dynamics
 2 0842 432 Personal Values
 5 0837 101 Health for Personal Living
 5 0837 220 Mental Health
 5 0837 290 Human Sexuality
 6 1301 141 Interpersonal Relations
 6 1305 320 Parenting Skills and Resources

LEGEND OF DEPARTMENTAL CODES

A Accounting, Law and Taxation
 B Business Education and Office Systems Administration
 C Economics
 D Finance and Quantitative Methods
 E Management
 F Marketing
 G Fine Arts
 H Music
 I Speech and Theatre
 J Anthropology
 K Classics
 General Humanities
 L Communication Sciences and Disorders
 M English
 N Environmental, Urban and Geographic Studies
 O French

German/Slavic
 P History
 Q Linguistics
 Legal Studies
 R Philosophy and Religion
 S Political Science
 T Psychology
 U Sociology
 V Spanish/Italian
 W Biology
 X Chemistry
 Y Mathematics and Computer Science
 Z Geoscience/Physics
 1 Continuing Education
 Curriculum and Teaching
 2 Counseling, Human Services and Guidance
 3 Educational Foundations
 4 Educational Leadership
 Administration and Supervision
 Media and Technology
 Reading
 Research and Evaluation
 5 Health Professions
 6 Home Economics
 7 Industrial Studies
 8 Physical Education, Recreation and Leisure Studies
 9 Cooperative Education
 Women's Studies





ACADEMIC PROGRAMS by departments

Accounting, Law and Taxation

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Lee Primiano

Increased government regulation and business expansion demand added expertise of today's accountant. The department's accounting program prepares students for careers in public and private accounting.

The Certified Public Accountant (CPA) is concerned with public accounting. CPAs render a variety of services for their clients: conducting independent audits and providing accounting, tax, and a variety of management advisory services. The program meets the educational requirements for admission to the CPA examination.

In the private sector, graduates are prepared primarily for industrial accounting leadership positions. The program emphasizes the structure, design, and analysis of accounting systems in the financial reporting and management decision processes.

A Bachelor of Science degree is offered in Business Administration with specializations in professional accounting and managerial accounting.

Business Administration Major

Required Courses

	Semester Hours
0502 201 Fundamentals of Accounting I	3
0502 202 Fundamentals of Accounting II	3
0501 261 Legal Environment of Business I	3
0503 270 Statistics for Business	4
0506 311 Management Process and Organizational Behavior	4
0504 321 Fundamentals of Finance	3
0509 340 Introduction to Marketing	3
0503 372 Management Science	4
0506 439 Business Policy	3
0504 463 Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113 Mathematics for Business I	3
1701 114 Mathematics for Business II	3
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3

Specializations Within the Major

Professional Accounting

Required Courses

	Semester Hours
0502 301 Intermediate Accounting I	4
0502 302 Intermediate Accounting II	4
0502 303 Auditing Theory and Practice	3
0502 307 Cost Accounting and Control I	3
0502 403 Tax Accounting	3

Electives

Select 3 semester hours from the appropriate list to be obtained from the department 3

Managerial Accounting

Required Courses

0502 301 Intermediate Accounting I	4
0502 302 Intermediate Accounting II	4
0502 307 Cost Accounting and Control I	3
0502 308 Cost Accounting and Control II	3

Electives

Select 6 semester hours from the appropriate list to be obtained from the department 6

Courses of Instruction

A 0501 261
LEGAL ENVIRONMENT OF BUSINESS I 3.0
A study of the legal principles of a governed society and the social forces within such a society. Special attention is accorded to the law of contracts and of agency, employing the uniform commercial code as a basis for interpretation. Case material.

A 0501 262
LEGAL ENVIRONMENT OF BUSINESS II 3.0
An analysis of the law of commercial paper and sales with an introduction to secured transactions. The basic statutory source employed is the uniform commercial code. Case material (recommended for CPA preparation).
Prerequisite: A 0501 261.

A 0501 263
LEGAL ENVIRONMENT OF BUSINESS III 3.0
An analysis of the law of partnerships and corporations including the nature of formation, rights and duties of parties, and dissolution. The basic statutory sources employed are the uniform partnership act and the model business corporation act; case material.
Prerequisites: A 0501 262, D 0504 321.

A 0501 464
LEGAL PROBLEMS OF THE MARKETING PROCESS 3.0
The historic and social relationships of law and marketing. The legal framework including (1) the relationship of administrative agencies to enforcement of legislative policy; (2) governmental regulation of anti-competitive business behavior; (3) regulations protecting consumers; and (4) regulations protecting the use of intellectual property. Legal problems of international marketing and distribution.
Prerequisites: A 0501 261, F 0509 340.

A 0502 200	
ACCOUNTING FOR NON-BUSINESS MAJORS	3.0
This is a basic course in the concepts and uses of financial data as it relates to business decision making.	
A 0502 201	
FUNDAMENTALS OF ACCOUNTING I	3.0
Mastery of the fundamental elements of accounting, journalizing, posting, taking a trial balance, preparing financial statements, and closing books, special journals and controlling accounts.	
<i>Prerequisites: Y 1701 113, 114; C 2204 101, 102.</i>	
A 0502 202	
FUNDAMENTALS OF ACCOUNTING II	3.0
Builds on financial accounting. Corporation accounting, bonds payable, investments, manufacturing costs, fund flow analysis and profit-volume relationships.	
<i>Prerequisite: A 0502 201.</i>	
A 0502 301	
INTERMEDIATE ACCOUNTING I	4.0
The preparation of advanced accounting statements, valuation of current and fixed assets, intangible assets, current liabilities and investments.	
<i>Prerequisite: A 0502 202.</i>	
A 0502 302	
INTERMEDIATE ACCOUNTING II	4.0
A continuation of principles underlying financial statements, long-term liabilities, present value analysis, corporate capital, funds flow and special purpose funds.	
<i>Prerequisite: A 0502 301.</i>	
A 0502 303	
AUDITING THEORY AND PRACTICE	3.0
The conduct of audits of various types, the balance sheet audit, audit working papers, correction of books and preparation of audit reports.	
<i>Prerequisite: A 0502 302.</i>	
A 0502 307	
COST ACCOUNTING AND CONTROL I	3.0
The determination of product costs and elements of cost control applied to basic job order, process and standard cost systems. The nature of manufacturing costs and the use of accounting data in decision-making.	
<i>Prerequisite: A 0502 202.</i>	
A 0502 308	
COST ACCOUNTING AND CONTROL II	3.0
Estimating cost, budgets and costs, standard cost, analysis and control of costs, break-even analysis and differential cost analysis.	
<i>Prerequisite: A 0502 307.</i>	
A 0502 401	
ADVANCED ACCOUNTING	3.0
Accounting problems peculiar to consolidated financial statements, partnership accounts and special sales procedures.	
<i>Prerequisite: A 0502 302.</i>	
A 0502 403	
TAX ACCOUNTING	3.0
A comprehensive picture of the federal tax structure, the determination of net income, credits exemptions and rates for various taxpayers.	
<i>Prerequisite: A 0502 202.</i>	
A 0502 404	
CURRENT TAX PROBLEMS	3.0
Advanced phases of income taxation with particular attention to corporations, partnerships and estates.	
<i>Prerequisite: A 0502 403.</i>	

Anthropology

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Bertha B. Quintana

All peoples and all aspects of human life are the subject of anthropology. It stresses objectivity through the study of other peoples; gives insight from the studies that others make of us; and teaches responsibility by applying the results to our rapidly changing, evolving world.

The four basic fields: cultural anthropology, archaeology, physical anthropology, and anthropological linguistics are represented in the department. The major prepares students for advanced work in the discipline which can lead to college teaching, museum work and/or research. By providing diversity in courses, the student can prepare for non-academic careers as well—e.g., community service agencies, multi-national corporations, public health programs, urban renewal, international relations. Programs can also be adapted to meet certification for teaching secondary school social studies in New Jersey. For those interested in a liberal arts background, anthropology is an excellent program which can be combined with career-oriented majors and minors.

The department also has a unique apprenticeship experience designed to test theories learned in the classroom and to gain practice in the field. Montclair State College is one of the few colleges in the country to offer this to undergraduates.

Anthropology Major

Required Courses

	Semester Hours
2202 100 Cultural Anthropology	3
2202 101 Physical Anthropology	3
2202 203 Anthropological Linguistics	3
2202 205 Prehistoric Archaeology	3

Electives (Cross-cultural)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Electives (Theory and Methods)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Note: Work in supportive areas—e.g., transcultural studies (including non-western history and cultural geography), urban studies, social psychology, primitive art, ethno-musicology, the natural sciences, statistics, sociology, linguistics, and foreign languages—is strongly recommended and should be discussed with major advisors.

Teacher Certification (Social Studies)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Courses of Instruction

J 2202 100

CULTURAL ANTHROPOLOGY 3.0
Analysis of transcultural data, basic methodologies, concepts and goals of anthropology, the nature of culture, its role in human experience and its universality.

J 2202 101

PHYSICAL ANTHROPOLOGY 3.0
The biological basis of human evolution including surveys of human paleontology, primatology and human races. The relationship of culture to human development; lectures, field trips and the use of fossil and audio-visual materials. (Field trip fee.)

J 2202 200

URBAN ANTHROPOLOGY 3.0
The dynamics of acculturation that characterize the relationships between urban subcultures and the broader urban community. Emphasizes values, personality, behaviors and other aspects of the adjustment of people whose lifestyles set them apart from the dominant society.

J 2202 202

CULTURAL CHANGE AND MODERNIZATION 3.0
Cultural development, growth, transmission, perpetuation and change. The concept of modernization and its implications for folk and urban culture.

J 2202 203

ANTHROPOLOGICAL LINGUISTICS 3.0
Linguistic systems analyzed through informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages. The relationship of linguistic structure and theory to cultural systems. Cross listed with Linguistics (Q1505 203).

J 2202 204

ANTHROPOLOGY OF RELIGION 3.0
Patterns of religious beliefs and behaviors which relate to sacred, supernatural entities. Origin theories, divination, witchcraft, mythology and the relationship of religious movements to other aspects of culture.

J 2202 205

PREHISTORIC ARCHAEOLOGY 3.0
The development, method and theory of anthropological archaeology, analysis and interpretation of prehistoric cultural data by means of audio-visual, field and participatory involvement.

J 2202 206

HUMAN VARIATION 3.0
The study of various races from the perspective of physical anthropology. Theories and explanations of human variations, racial types in the modern world, as well as misconceptions concerning race, intelligence, and culture will be explored.

J 2202 207

AMERICAN FOLK CULTURE 3.0
Introduction to American folklore and folklife. Folklore theory and traditions, and the presentation and analysis of material folk culture.

J 2202 214

CONFLICT AND VIOLENCE 3.0
Interdisciplinary study of the social sources of violence and conflict contrasted to biological and other approaches. Types of violence and conflict including war, crime, interpersonal and institutional violence, class, ethnic and racial hostilities, etc. Also listed under Sociology as U 2208 214.

J 2202 215

THE ANTHROPOLOGY OF FOOD AND NUTRITION 3.0
An analysis of cultural practices and their effect on people's diet, nutritional status, and ecological situation. Cross-cultural comparisons will be emphasized.

J 2202 301

PEOPLES OF AFRICA 3.0
Diversity in the lifestyles of representative African cultures; prehistory, culture change, and contemporary problems in sub-Saharan Africa.

J 2202 302

NATIVE LATIN AMERICANS 3.0
Study of indigenous peoples of Latin America. Surveys earliest evidence of human occupation of Middle and South America and the Caribbean; diverse origins of food production; intellectual achievements; political organization; material contributions to world culture; and aspects of early European contact and conquest.

J 2202 304

PEOPLES OF THE SOVIET UNION 3.0
Selected ethnic, linguistic and religious identities within the borders of the Soviet Union. Russian influence on culture change among non-Russian peoples.

J 2202 305

NATIVE NORTH AMERICANS 3.0
Amerindian cultures north of Mexico: representative tribes, their world views, and their adaptations to the environment, each other, and European contact.

J 2202 307

ETHNOLOGY OF SOUTHEAST ASIA AND OCEANIA 3.0
Anthropological survey of selected tribal and peasant societies of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia and the Philippines; recent socio-cultural processes.

J 2202 310

CULTURES OF THE MIDDLE EAST 3.0
The Middle East culture area in anthropological perspective. Emphasis is placed on the nature of different interlocking cultural systems which are adaptations to environmental stresses in the Middle East. The concepts of culture and society will be explored in the context of course materials.

J 2202 311

ANTHROPOLOGY OF AMERICAN SUBCULTURES 3.0
Analysis of the diversity of racial, ethnic, religious, occupational, and other subcultures and subgroups within the U.S. Emphasis on the character of American culture. Subpopulations are examined in relationship to each other and to the mainstream culture.

J 2202 312

PEASANT CULTURE 3.0
Persistence and change among selected peasant peoples of the world. Characteristics of peasant society, personality in peasant culture, and modernization trends and effects. Guest lectures by cultural historians.

J 2202 313

ARCHAEOLOGY OF ANCIENT MIDDLE AMERICA 3.0
The archaeology of ancient cultures of Middle America. Consists of two major units: (1) Northern Mesoamerica, the Gulf Coast, Oaxaca and Central Mexican Aztecs; (2) Ancient Maya of Mexico and Central America.

J 2202 405

PSYCHOLOGICAL ANTHROPOLOGY 3.0
Transcultural focus on the interrelated nature of culture and human behavior. Interdisciplinary course with emphasis on mutual dependencies of anthropological and psychological theory and method. Students work with bicultural informants. Cross-listed with Psychology (T 2001 405).
Prerequisites: J 2202 100 or T 2001 101.

J 2202 406
ANTHROPOLOGY OF AGING AND THE AGED 3.0
An analysis of the influences of cultural systems on the processes of aging. Special emphasis is placed on the behaviors and meanings attached to the stages of growing older in a variety of cultural systems.

J 2202 407
INDEPENDENT RESEARCH IN ANTHROPOLOGICAL THEORY AND METHOD 3.0-6.0
Directed research towards the preparation of written papers, stressing fieldwork, library research and problem orientation. A tutorial without formal class meetings.
Prerequisite: Departmental approval.

J 2202 411
ARCHAEOLOGICAL FIELD METHODS 3.0
Provides practical field experience in the various aspects of survey and excavation techniques. A specific area will be surveyed and a site will be excavated.
Prerequisite: J 2202 205 or instructor's permission.

J 2202 412
CULTURAL ECOLOGY 3.0
The relationships between culture and the biophysical environment, as well as the cultural environment. The emphasis will be on primitive and non-western cultures.

J 2202 413
MEDICAL ANTHROPOLOGY 3.0
Examines the study of medical care in comparative societies (ethnomedicine) as well as the historical and ecological aspects of disease in human evolution.
Prerequisite: J 2202 101 or instructor's permission.

J 2202 414
SELECTED ISSUES IN ANTHROPOLOGY 3.0
Identification and analysis of contemporary issues and problems in anthropology—e.g., models of society, new directions in anthropological inquiry and methodology, etc.
Prerequisite: 6 semester hours in anthropology.

J 2202 415
WOMEN IN TRADITIONAL SOCIETY 3.0
Surveys several traditional preindustrial societies with special emphasis on the place of women in each society studied. The connections between environment, technology and the female work role are investigated, and the amount of power women have over their own lives and those of others is assessed. The place of women in each society's symbolic systems is also analyzed.

J 2202 416
THE ANTHROPOLOGY OF HUMAN REPRODUCTION 3.0
A biocultural study of pregnancy, childbirth, attitudes toward male and female children, sexual development of the newborn to adolescence, sexual maturity and behaviors and attitudes toward human reproduction.

J 2202 419
EXPERIMENTAL ARCHAEOLOGY 3.0
The course will cover the manufacture, use, preservation, analysis, and cataloging of prehistoric artifacts made of stone, bone, and wood.
Prerequisite: J 2202 205 or, J 2202 411.

J 2202 420
APPRENTICESHIP IN ANTHROPOLOGY 6.0-12.0
According to interest and preparation, students are placed in cooperating agencies in order to provide an opportunity to test their acquired theoretical knowledge and to gain disciplined practice in their profession. Under faculty guidance and agency supervision, students are to engage in anthropological fieldwork by conducting research and/or special projects.
Prerequisite: 24 hours in anthropology, 6 additional hrs. in social and behavioral sciences.

J 2202 430
FIELD METHODS LINGUISTICS 3.0
Focuses on the development of the student's skill in gathering and analyzing linguistic data. Complements the more theoretically oriented courses in linguistics.
Prerequisite: J 2202 203 or Q 1505 210.

J 2202 432
DEVELOPMENT OF JAPANESE CHARACTER AND CULTURE 3.0
The historical conditioning of Japanese behavior; cultural change in the perspective of traditional periodization of Japanese history, contributions of religion and philosophy to defining social values. Cross-listed with History (P 2205 432).

J 2202 461
CULTURAL HISTORY OF PRIMITIVE SOCIETIES 3.0
Interdisciplinary approach to the aims, methods and techniques of ethnohistorical research. Documentary and non-documentary evidence in reconstructing the culture history of pre- or semi-literate societies. Cross listed with History (P 2205 461).
Prerequisite: J 2202 100 or P 2205 200.

Biology

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES
Chairperson: J. Michael McCormick

The student can prepare for graduate work, or professional programs in medicine, dentistry, medical technology, and other fields related to biology, by taking the major requirements with a proper selection of electives. Students can obtain certification to teach biology by completing the professional sequence. A minor in biology is also available.

Outstanding students can take advantage of the honors program and be granted an "Honors in Biology" by fulfilling the prescribed requirements. For information about the program, contact the department chairperson.

Freshman courses offered for biology majors assume that the student has taken biology, chemistry and physics and at least three years of college preparatory mathematics in high school.

A major in toxicology is also offered and is described later in this catalog.

Biology Major

Required Courses		Semester Hours
0401 140	Biology of the Cell	4
0401 121	The Plant Kingdom	4
0401 130	Invertebrate Zoology	4
0401 131	Vertebrate Zoology	4
0401 415	Genetics	4
0401 416	Genetics Laboratory Investigations	1

Collateral Courses

1905 120, 121	General Chemistry I, II	4 ea.
1905 230, 231	Organic Chemistry I, II	3 ea.
1905 232	Experimental Organic Chemistry I	2
1902 193, 194	College Physics I, II	4 ea.

Select one sequence

1701 115	Precalculus Mathematics	3
1701 116	Calculus A	4
1701 123, 221	Calculus I, II	4 ea.
1701 117, 118	Mathematics and Computer Science for the Life Sciences I, II	4, 3

Electives

Select 13 semester hours from the appropriate list to be obtained from the department 13

Biology Minor

Required Courses

0401 140	Biology of the Cell	4
0401 121	The Plant Kingdom	4
0401 130	Invertebrate Zoology	4
0401 131	Vertebrate Zoology	4
0401 415	Genetics	4

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. In addition, for the Comprehensive Science and Biological Science certificates, two additional courses, W 0401 320 Plant Form and Function and Z 0834 401 The Teaching of Science in Secondary School, must be taken.

Second Teaching Field in Biological Sciences

Students majoring in another field desiring certification in biology in addition to one in their major field must take the following:

0401 140	Biology of the Cell	4
0401 121	The Plant Kingdom	4
0401 130	Invertebrate Zoology	4
0401 131	Vertebrate Zoology	4
0401 320	Plant Form and Function	4
0401 415	Genetics	4

Special Program Requirements

Biology Honors

- Biology Major
- Over-all Grade Point Average 3.5
- Biology Grade Point Average 3.7 with no grade lower than a "B"
- Additional Courses
 - 0401 418 Biology Independent Study
 - 0401 495 Independent Study in Biology Literature (2 Biology faculty sponsors needed)

Courses of Instruction

W 0401 100	BIOLOGICAL SCIENCES	4.0
Organization of plants and animals, structure, function, mechanisms of heredity, evolutionary change. Interrelationships of man, other organisms and environment. (3 hrs. lecture, 2 hrs. laboratory)		

W 0401 103	GENERAL BIOLOGY I	4.0
Adaptation of structure to function of cells, tissues and organs of plants and animals. Physical, chemical and ecological forces affecting these. (3 hours of lecture, 3 hours of laboratory)		

W 0401 104	GENERAL BIOLOGY II	4.0
Adaptation of structure to function of cells, tissues and organs of plants and animals. Physical, chemical and ecological forces affecting these.		

W 0401 106	BEHAVIOR IN THE WORLD OF ANIMALS	3.0
Survey of behavioral patterns employed in interactions between animals. Aggression, communication, reproductive behavior, development of social behavior. Not for biology majors.		

W 0401 107	BIOLOGY FOR SURVIVAL	3.0
Basic concepts of biology that focus on social implications of pollution, population control, radiation, drugs, pesticides, the genetic revolution, etc. for non-science majors. (3 hrs. lecture)		

W 0401 109	INTRODUCTORY ECOLOGY: THE LIVING WORLD	3.0
To acquaint the non-biology major with the general principles of plant and animal interactions and the adaptations of plants and animals to their habitats, including the extreme habitats of desert, cave, deep sea, and the arctic.		

W 0401 110	THE BIOLOGY OF HUMAN LIFE	3.0
The biological basis to human development, birth, maturation, and aging. Not for biology major credit.		

W 0401 121	THE PLANT KINGDOM	4.0
Survey of the plant kingdom with emphasis on evolutionary trends and economic importance. (2 hrs. lecture, 4 hrs. laboratory)		

W 0401 130	INVERTEBRATE ZOOLOGY	4.0
Form, function, ecology and evolution of invertebrates. (3 hrs. lecture, 3 hrs. laboratory)		

W 0401 131	VERTEBRATE ZOOLOGY	4.0
Form, function, ecology and evolution of vertebrates. (3 hrs. lecture, 3 hrs. laboratory)		

W 0401 140	BIOLOGY OF THE CELL	4.0
Form, function and evolution of cells. (3 hrs. lecture, 3 hrs. laboratory)		

W 0401 212	GENETICS, INDIVIDUAL AND SOCIETY	3.0
Basic genetic principles and modern molecular genetics and their application to human heredity, medicine, the future of man and our natural world.		

W 0401 213	INTRODUCTION TO FIELD BIOLOGY	2.0
Taxonomy, ecology and conservation are stressed for a ten-day period at the New Jersey State School of Conservation in Stokes State Forest.		

W 0401 240	MAMMALIAN ANATOMY AND PHYSIOLOGY I	3.0
Human anatomy and physiology for health education and physical education majors. Not for biology majors. (2 hrs. lecture, 2 hrs. laboratory)		

W 0401 241			
MAMMALIAN ANATOMY AND PHYSIOLOGY II	3.0		
Human anatomy and physiology for health education and physical education majors. Not for biology majors. (2 hrs. lecture, 2 hrs. laboratory)			
W 0401 242			
HUMAN BIOLOGY	3.0		
Body structure and functions in relation to the maintenance of good health. Not for biology majors. (2 hrs. lecture, 2 hrs. laboratory)			
W 0401 243			
HUMAN ANATOMY AND PHYSIOLOGY	4.0		
A study of the dynamics of the human body in relation to its structure and function is based on its nutritional input. Each organ system is discussed in relation to its contribution to the whole functioning organism, as well as a basic survey of its pathologies. Primarily for ADA certification.			
<i>Prerequisite: X 1905 270.</i>			
W 0401 244			
ANATOMY AND PHYSIOLOGY OF MAMMALS I	4.0		
The structure and function of the cell, tissue and organ systems—integumentary, skeletal, muscular, circulatory and respiratory. Not for Biology Majors. (3 hours lecture, 2 hours lab)			
W 0401 245			
ANATOMY AND PHYSIOLOGY OF MAMMALS II	4.0		
The structure and function of the organ systems—nervous, excretory, endocrine, digestive and reproductive. Not for Biology Majors. (3 hours lecture, 2 hours lab)			
W 0401 254			
APPLIED MICROBIOLOGY	3.0		
Microbiological concepts and techniques applicable to food and dairy processing, health and disease, water, waste and other environmental problems. (2 hrs. lecture, 2 hrs. laboratory)			
<i>Prerequisite: One year chemistry or course in similar field.</i>			
W 0401 255			
SURVEY OF MICROBIOLOGY	4.0		
Microbiological concepts and techniques applicable to medical, health and environmental problems. (3 hrs. lecture, 2 hrs. laboratory)			
<i>Prerequisite: One year of chemistry or course in similar field.</i>			
W 0401 300			
ENVIRONMENTAL BIOLOGY AND RELATED CONTROVERSIAL ISSUES	3.0		
Analysis of ecological problems of today's population trends and control, food production, environmental deterioration, waste disposal, etc.			
<i>Prerequisite: 12 semester hours of biology.</i>			
W 0401 320			
PLANT FORM AND FUNCTION	4.0		
This course acquaints the student with the methods and tools of science. Morphology and physiology of the cell and of the plant as a whole are considered.			
<i>Prerequisite: W 0401 121.</i>			
W 0401 330			
INTRODUCTION TO ANIMAL BEHAVIOR	4.0		
Concepts and theories of the sensory world of animals and behavioral patterns resulting in environmental adaptations. (3 hrs. lecture, 3 hrs. lab.)			
<i>Prerequisite: W 0401 130, 131 and 4 additional biology credits or permission of instructor.</i>			
W 0401 331			
CHRONOBIOLOGY	2.0		
An introduction to "biological clocks," their widespread occurrence, significance and mechanisms of action. (2 hours lecture)			
W 0401 350			
ELEMENTARY MICROBIOLOGY	4.0		
A study of bacteria, yeast, molds and other microorganisms in relation to modern biological concepts and the welfare of man. Standard techniques employed in the laboratory.			
<i>Prerequisites: W 0401 140, X 1905 120, 121.</i>			
W 0401 370			
PRINCIPLES OF ECOLOGY	3.0		
To acquaint the biology majors with the general principles of ecology, population dynamics and adaptations of plants and animals to the various habitats. (2 hours lecture, 2 hours laboratory)			
<i>Prerequisites: One semester botany and two semesters zoology.</i>			
W 0401 411			
INTRODUCTION TO TRANSMISSION ELECTRON MICROSCOPY	4.0		
Basic theory and practice of electron microscopy. Specimen preparation, ultramicrotomy, microscopy, photographic preparation of final print, interpretation of results. (3 hrs. lecture, 3 hrs. laboratory)			
<i>Prerequisites: 18 hours biology, W 0499 404 and instructor's permission.</i>			
W 0401 415			
GENETICS	4.0		
Lecture only. Heredity, gene and chromosomal structure and function, gene regulation, mutation and repair, genes in population, genetic manipulation, and applied genetics are covered. Required for all biology majors.			
W 0401 416			
GENETICS LAB INVESTIGATIONS	1.0		
Laboratory exercises in the study of gene and chromosome structure and function, patterns of heredity including probability and statistics, and a semester-long research project, and a paper which will be required. This course is to be taken in conjunction with W 0401 415 Genetics and required for undergraduate biology majors.			
<i>Prerequisites: W 0401 140, 121, 1 yr. of chemistry.</i>			
W 0401 418			
BIOLOGY INDEPENDENT STUDY	1.0-4.0		
Under the guidance of a sponsor, students will investigate individual problems of appropriate scope. A written and/or oral report is required (Offered on demand.)			
W 0401 419			
HISTORY AND PHILOSOPHY OF THE LIFE SCIENCES	2.0		
Historical survey of the major trends in the development of scientific thought. (Not offered every year.)			
W 0401 420			
ECONOMIC BOTANY	3.0		
Importance of plants to the world in general and to main in particular. (Not offered every year.)			
<i>Prerequisite: W 0401 320 or 121.</i>			
W 0401 426			
NEW JERSEY FLORA	4.0		
Field identification of mosses, liverworts, ferns, and seed plants in a variety of habitats. (Not offered every year.)			
<i>Prerequisite: W 0401 121 or course in similar field.</i>			
W 0401 430			
FIELD ORNITHOLOGY	3.0		
Identification and natural history of birds in a variety of habitats. Trips on a varying schedule. (Not offered every year.) (1 hr. lecture, 3 hrs. laboratory)			

- W 0401 431
ENTOMOLOGY 3.0
Identification, physiology and ecology of common insect families. (Not offered every year.)
Prerequisite: W 0401 130.
- W 0401 432
MEDICAL ENTOMOLOGY 3.0
The study of arthropods that are vectors of diseases afflicting man and domestic animals. (Not offered every year.)
Prerequisite: W 0401 130 or 431.
- W 0401 439
BIOLOGY OF ANIMAL PARASITES 4.0
The basic principles of parasitism. Ecological, morphological, and physiological adaptations for parasitism. Evolution of parasites and integration with the host.
Prerequisite: 1 year of zoology and/or botany. Genetics recommended.
- W 0401 440
MAMMALIAN ANATOMY AND HISTOLOGY 4.0
Functional human anatomy at the microscopic and gross level. Laboratory dissection of the cat and study of prepared histological slides. (3 hours lecture, 3 hours laboratory)
Prerequisite: W 0401 131.
- W 0401 441
COMPARATIVE ANATOMY OF THE VERTEBRATES 4.0
Ontogeny and morphology of representative taxa of the protochordates and chordates. (Not offered every year.)
Prerequisite: W 0401 131 or 440.
- W 0401 442
HUMAN PHYSIOLOGY 4.0
Functions of animal organs and systems with emphasis on maintenance of homeostasis.
Prerequisites: W 0401 440 or course in similar field.
- W 0401 443
VERTEBRATE EMBRYOLOGY 4.0
Developmental anatomy of the vertebrates, especially amphibian, chick and human. General concepts of development and cell differentiation. (Not offered every year.)
Prerequisites: W 0401 130, 131.
- W 0401 444
CELL PHYSIOLOGY 3.0
Advanced course in phenomena in cell function. Individual experimental problems using specialized instrumentation are assigned in the laboratory.
Prerequisites: W 0401 442, X 1905 230.
- W 0401 445
IMMUNOLOGY 3.0
Cellular and humoral immunal responses, immunoglobulines, antigen-antibody reactions, immunopathology, transplantation and blood transfusion. (Not offered every year.)
- W 0401 446
ENDOCRINOLOGY 3.0
Basic anatomy and physiology of the mammalian endocrine glands with special attention directed to the human endocrine glands. The interrelationships between the various endocrines including neural control and the role of these glands in maintaining the homeostasis of the body will be stressed.
- W 0401 460
BIOLOGICAL OCEANOGRAPHY 3.0
Biological processes within oceans and estuaries are considered in relation to the physical environment. Field and laboratory work. (Not offered every year.)
Prerequisites: W 0401 130, 121.
- W 0401 461
LIMNOLOGY 3.0
Biological and physical processes of rivers and lakes. Field work and laboratory. (Not offered every year.)
- W 0401 467
BIOLOGY OF THE FISHES 4.0
Systematics, adaptations, reproduction, evolution, ecology and zoogeography of major groups of marine fishes. At New Jersey Marine Sciences Consortium. (Not offered every year.)
Prerequisites: W 0401 131, 442.
- W 0401 490
SELECTED TOPICS IN BIOLOGY 2.0-4.0
Course which will allow the advanced undergraduate student to study a single topic in depth. This course would allow the students an opportunity to integrate the principles of several areas (ecology, physiology, genetics, etc.) of biology in the study of a single topic.
- W 0499 404
PLANT AND ANIMAL HISTOLOGICAL TECHNIQUES 3.0
Basic techniques and skills in preparation of permanent microscopic slides of plant and animal tissue. (1 hr. lecture, 3 hrs. laboratory.)
Prerequisite: 12 semester hours of biology.
- W 0499 405
CELL CULTURE 3.0
Theory of and practice in working with living cells; tissue culture techniques, cell communication, differentiation, regeneration and aging in several living cell systems.
Prerequisite: All required biology courses (20 hrs.) plus instructor's permission.
- W 0499 406
SCANNING ELECTRON MICROSCOPY 3.0
Introduction to theory and practice of scanning electron microscopy. Includes specimen preparation, scanning electron microscope operation, electron specimen interactions/imagery, and microanalysis.
- W 1999 220
INTRODUCTION TO MARINE BIOLOGY 4.0
This is a field and laboratory oriented-course covering the characteristics of marine plants and animals. The course is designed to provide the student with experience in collection and identifying local marine flora and fauna.
- W 1999 422
BIOLOGY OF MARINE PLANKTON 2.0
A study of the marine phytoplankton and zooplankton, their collection, analysis and interpretation. Their role in the ecosystem will be stressed as will be their distribution, particularly those of the near shore and estuarine environment. Field trips will be made to coastal New Jersey. Offered at the site of the New Jersey Marine Sciences Consortium.
- W 1999 431
MARINE INVERTEBRATE ZOOLOGY 4.0
A study of the invertebrates living in the marine realm with emphasis on the interrelations of these animals to their particular environment. Field work will include studies of the Peagic and Benthonic forms associated with estuaries and the continental shelf. Also offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisites: W 0401 130, 131.
- W 1999 433
SEASHORE ORNITHOLOGY 2.0
Field identification of birds of the ocean, salt marsh, sand dunes, and adjacent land areas. Includes discussion of habits and ecology. Offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisite: W 0401 430.

W 1999 438
SEASHORE ENTOMOLOGY 2.0
 Ecological studies of the insect fauna found in the unique habitats of the (1) Intertidal Zone, (2) Coastal Sand Dunes and (3) Salt Marsh found along the New Jersey shoreline.
Prerequisites: W 0401 130 or 431.

W 1999 450
MARINE BOTANY 4.0
 An introduction to the structure, systematics, physiology and ecology of algae and metaphyta of the marine environment. Emphasis will be placed on the flora of the estuary and tidal marsh. Biology of the associated phytoplankton will be studied. Offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisite: W 0401 102, or instructor's permission.

W 1999 455
MARSH AND DUNE VEGETATION 2.0
 A field and laboratory study of the plant communities that inhabit the sand dunes and marshes of the coastal zone of New Jersey. The diversity of the forms of plant life and their adaptations and ecological roles. The collection and identification of individual plant species. Also offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisites: 8 credit hours of biology including one semester of botany. A course in ecology is recommended.

W 1999 490
FIELD METHODS IN THE MARINE SCIENCES 4.0
 The application and techniques of marine sampling, including those of biology, chemistry, geology, meteorology and physics. The nature and role of various pieces of sampling equipment. Field experience at the New Jersey Marine Sciences Consortium. (2 hrs. lecture, 4 hrs. laboratory.)



Business Education and Office Systems Administration

SCHOOL OF BUSINESS ADMINISTRATION

Chairperson: Albert D. Rossetti

There are two major thrusts to the courses offered through the department. Students in the teacher education programs follow a professional sequence qualifying them for New Jersey teacher certification in a variety of business subjects. Four specializations are available for teacher education majors—accounting, distributive education, general business, and secretarial science.

Students in the office administration program develop skills that prepare them for careers in the office administration areas of word processing, records management, data processing, or office management. Students in the retail merchandising and management program develop skills that prepare them for careers as buyers, fashion coordinators, merchandisers, and retail executives. These two programs are concentrations in Business Administration offered through the Department of Business Education and Office Systems Administration.

All programs in the department lead to a Bachelor of Science degree and are open to high school graduates, as well as to those who have attended a two-year college. Prior business study is not required.

Teacher Education

Professional Sequence: Identical for all four specializations in teacher education.

Pre-Professional Semester Courses:

	Semester Hours
0829 400 Teacher, School, and Society	3
0829 410 Intermediate Experience in Education	1
0830 407 Developmental Reading Principles and Techniques I	3
0830 408 Developmental Reading Principles and Techniques II	3
Departmental Methods	4
	14

Professional Semester

Student Teaching Package	13
------------------------------------	----

Collateral Courses

0821 220 Philosophical Orientation to Education	3
0838 273 Introduction to Business Data Processing	3
0838 309 Personal Finance	3
1701 109 Statistics	3
2001 101 General Psychology	3
2001 200 Educational Psychology	3
2204 100 Introduction to Economics	3
	21

Business Education Major

Specializations:

Accounting and General Business Education

Required Courses

	Semester Hours
0838 101 Contemporary Business	3
0838 306 Office Services and Applications	3
0838 335 Computer Applications of Office Systems	3
0845 320 Business Communications	3
0501 261 Legal Environment of Business I	3
0502 201, 202 Fundamentals of Accounting I, II	3 ea.
0502 403 Tax Accounting	3
0504 321 Fundamentals of Finance	3
0506 311 Management Process and Organizational Behavior	4
0506 439 Business Policy	3
0509 340 Introduction to Marketing	3

Comprehensive Business Education:

Required Courses

	Semester Hours
0838 101 Contemporary Business	3
0838 203 Production Typewriting	1
0838 303 Advanced Stenography and Transcription	2
0838 306 Office Services and Applications	3
0838 335 Computer Applications of Office Systems	3
0838 402 Principles and Methods of Teaching Accounting	2
0845 207 Word Processing Applications	3
0845 320 Business Communications	3
0501 261 Legal Environment of Business I	3
0502 201, 202 Fundamentals of Accounting I, II	3 ea.
0502 403 Tax Accounting	3
0504 321 Fundamentals of Finance	3
0506 311 Management Process and Organizational Behavior	4
0506 439 Business Policy	3
0509 340 Introduction to Marketing	3

Distributive Education and General Business Education

Required Courses

	Semester Hours
0838 101 Contemporary Business	3
0838 401 Principles and Methods of Teaching General Business	2
0844 208 Salesmanship	3
0844 249 Merchandise Information	2
0844 307 Retail Store Merchandising and Management	3
0844 308 Visual Merchandising	3
0844 309 Buying for Distribution	2
0844 348 Practicum in Distributive Education I	1
0844 450, 451 Supervised Work Experience and Seminar I, II	2 ea.
0844 455 Curriculum Development of Distributive Education	3
0998 411 Principles and Philosophy of Vocational Education	1
0501 261 Legal Environment of Business I	3
0502 201, 202 Fundamentals of Accounting I, II	3 ea.
0504 321 Fundamentals of Finance	3
0506 311 Management Process and Organizational Behavior	4
0506 439 Business Policy	3
0509 340 Introduction to Marketing	3

Secretarial and General Business Education

Required Courses

	Semester Hours
0838 101 Contemporary Business	3
0838 203 Production Typewriting	1
0838 303 Advanced Stenography and Transcription	2
0838 306 Office Services and Applications	3
0838 335 Computer Applications of Office Systems	3
0845 207 Word Processing Applications	3
0845 320 Business Communications	3
0501 261 Legal Environment of Business I	3
0502 201, 202 Fundamentals of Accounting I, II	3 ea.
0504 321 Fundamentals of Finance	3
0506 311 Management Process and Organizational Behavior	4
0506 439 Business Policy	3
0509 340 Introduction to Marketing	3

Teacher Certification

Students wishing certification must be accepted into the Teacher Education program. They must follow the professional sequence outlined both in this department and the Teacher Education program. See the department of Curriculum and Teaching for admission requirements.

Business Administration

Office Systems Administration Concentration

This is a concentration in Business Administration offered through the Department of Business Education and Office Systems Administration.

Required Courses

	Semester Hours
0838 306 Office Services and Applications	3
0838 335 Computer Applications of Office Systems	3
0845 308 Principles of Office Management	3
0845 320 Business Communications	3
0845 321 Records Management	3
0845 409 Word Processing Management	3
0845 411 Managing Automated Office Systems	3
0845 430 Seminar in Office Systems Administration	3
0501 261 Legal Environment of Business I	3
0502 201, 202 Fundamentals of Accounting I, II	3 ea.
0504 321 Fundamentals of Finance	3
0506 311 Management Process and Organizational Behavior	4
0506 316 Human Resource Management	3
0506 439 Business Policy	3
0509 340 Introduction to Marketing	3

Collateral Courses

0838 273 Introduction to Business Data Processing	3
1701 109 Statistics	3
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3

Electives Within the Major 6

Non-Business Electives 14

Retail Merchandising and Management Concentration

This is a concentration in Business Administration offered through the Department of Business Education and Office Systems Administration:

Required Courses

	Semester Hours
0844 208 Salesmanship	3
0844 249 Merchandise Information	2
0844 308 Visual Merchandising	3
0844 307 Retail Store Merchandising and Management	3
0844 309 Buying for Distribution	2
0844 348 Practicum in Distributive Education I	1
0844 450, 451 Supervised Work Experience and Seminar I, II	2 ea.
0844 482 Independent Owned and Franchised Retailer	3
0844 483 Seminar in Retail Management	3
0501 261 Legal Environment of Business I	3
0502 201, 202 Fundamentals of Accounting I, II	3 ea.
0504 321 Fundamentals of Finance	3
0506 311 Management Process and Organizational Behavior	4
0506 439 Business Policy	3
0509 340 Introduction to Marketing	3
0509 442 Marketing Research	3
0509 446 Marketing Strategy and Implementation	3

Collateral Courses

	Semester Hours
0838 273 Introduction to Business Data Processing	3
1701 109 Statistics	3
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3

Electives Within the Major 8

Non-Business Electives 9

Courses of Instruction

B 0838 101 CONTEMPORARY BUSINESS 3.0
The organization and operation of contemporary business is explored. Students study the operation of the free enterprise system, alternative economic systems, and the various functional areas of business: finance, management, production, and marketing.

B 0838 103 BEGINNING KEYBOARDING 3.0
Beginning keyboarding is designed for those students who have had no previous keyboarding instruction. The course offers basic instruction on the alpha-numeric keyboard in learning the touch method of keyboarding, as well as in developing skill in using the keyboard for communication and information processing, e.g., preparation of basic business and personal letters, business reports, tables and other related applications. The course meets four periods per week.

B 0838 104 INTERMEDIATE KEYBOARDING 3.0
This course is designed for students who have had previous keyboarding instruction. Students will develop increased speed and accuracy and will apply their keyboarding skill in the production of business-related projects. The ultimate aim is to develop proficiency in keyboarding applications. The course meets four periods a week
Prerequisite: B 0838 103.

B 0838 203 PRODUCTION TYPEWRITING 1.0
Taken in conjunction with methods of teaching typewriting. The technicalities of typewriting procedures; vocational competency in production typewriting.
Prerequisite: B 0838 104.

B 0838 204 PRINCIPLES OF SPEEDWRITING 3.0
The aim of this course is to provide a marketable skill for office and/or professional career areas to complement any undergraduate program of Montclair State College.

B 0838 205 BEGINNING STENOGRAPHY 3.0
The theory of Gregg Series 90 Stenography. Learning to read shorthand fluently and to take dictation on familiar material.

B 0838 206 INTERMEDIATE STENOGRAPHY AND TRANSCRIPTION 3.0
Gregg Stenography Theory reviewed; unfamiliar dictation given at moderate speeds; vocabulary building; transcription techniques.
Prerequisite: B 0838 205.

B 0838 273 INTRODUCTION TO BUSINESS DATA PROCESSING 3.0
This course introduces the student to the literature and vocabulary of business data processing—input and output media, to types of equipment, installations, job analysis, and systems development. The range covered extends from basic manual procedures to modern computer concepts and business problem programming in the BASIC language.

B 0838 303 ADVANCED STENOGRAPHY AND TRANSCRIPTION 2.0
Taken in conjunction with methods of teaching shorthand. The transcription of shorthand notes into typewritten copy. Sentence structure, correct grammar, spelling and good typewriting techniques; increasing dictation speed for new material as the course progresses.
Prerequisite: B 0838 206.

B 0838 306 OFFICE SERVICES AND APPLICATIONS 3.0
This course develops an awareness of the service functions performed in the office environment. Current trends in office procedures, supplies, and technological developments are explored. Self-developmental experiences and hands-on operation of calculating, reprographics, and audiovisual equipment are an integral part of the course.

B 0838 309 PERSONAL FINANCE 3.0
The role of the consumer in the economy is studied with the emphasis on forces affecting consumer demand, governmental and private agencies aiding the consumer, and development of intelligent techniques for buying and using consumer goods and services.

B 0838 310 CONSUMER FINANCE 3.0
The following areas are studied with emphasis on informing the students on how business and government policies and practices affect their standard of living: taxes, insurance, securities, and estate planning.

B 0838 335
COMPUTER APPLICATIONS OF OFFICE SYSTEMS 3.0
 Focus will be on the functions of the computer in office systems. The business education student will study basic elements of the COBOL computer language and utilize this knowledge in solving problems common to the office management setting. Laboratory problems will concentrate on the design, utilization, interpretation, and evaluation of computer applications to functions of the office manager.
Prerequisite: B 0838 273, majors only.

B 0838 390
BUSINESS INDEPENDENT STUDY I 2.0
 Each student, under the guidance of a faculty sponsor, conducts an in-depth study of a current problem in the business education field and presents a written report of the findings. Admission by application submitted to the department chairperson.

B 0838 391
BUSINESS INDEPENDENT STUDY II 2.0
 Each student, under the guidance of a faculty sponsor, is to conduct an in-depth study of a current problem in the business field. A written report of the findings of the study is to be presented. Admission is by application submitted to the department chairperson.

B 0838 401
PRINCIPLES AND METHODS OF TEACHING
GENERAL BUSINESS 2.0
 The methodology of teaching social business subjects, including general business, business law and consumer education. Content, lesson planning, visual aids and evaluation procedures.
Prerequisite: 12 semester hours of general business courses.

B 0838 402
PRINCIPLES AND METHODS OF TEACHING
ACCOUNTING 2.0
 The history and development of accounting instruction and materials, aims and objectives in light of current trends. Textbook selection, lesson planning, classroom procedures, tests and measurements, audio-visual and other teaching aids. A test of subject matter competency is required.
Prerequisite: 9 semester hours of accounting.

B 0838 403
PRINCIPLES AND METHODS OF TEACHING
STENOGRAPHY 1.0
 Complements B 0838 303 and is designed to prepare secretarial teachers for the teaching of stenography and transcription. Comprehensive coverage of the materials and methods for teaching stenography.
Prerequisite: B 0838 206.

B 0838 404
PRINCIPLES AND METHODS OF TEACHING
TYPEWRITING 1.0
 Complements B 0838 204 and deals with the techniques of teaching beginning and advanced typewriting; emphasis on the psychology of skill development.
Prerequisite: B 0838 203.

B 0838 449
SUPERVISED BUSINESS WORK EXPERIENCE 2.0
 An opportunity to work full time in a business position for ten weeks of the summer under college supervision. Weekly seminar to discuss problems related to the work experience program.

B 0844 208
SALESMANSHIP 3.0
 The role of personal selling in our economy and the diversity of sales positions are explored. Theories and concepts derived from the behavioral sciences are presented to develop an understanding of consumer behavior and basic selling techniques. Students apply their newly acquired selling skills in mock sales demonstrations.

B 0844 249
MERCHANDISE INFORMATION 2.0
 Textile and non-textile information; background selling information needed in retailing. Standards for determining quality of products and a knowledge of how to care for them. Manufacturing processes of various products.

B 0844 307
RETAIL STORE MERCHANDISING AND
MANAGEMENT 3.0
 Problems involved in the successful operation of a retail organization, preparation of the store for business, movement of merchandise from resource to store, preparation of merchandise for sale, movement of goods to the selling floor and to the customer.

B 0844 308
VISUAL MERCHANDISING 3.0
 Principles and elements of color, line, form, texture and space as they relate to displays, merchandising and advertising. Display space, lighting arrangements, improvisation of display equipment, the use of papier maché forms, seasonal displays, equipment and care of display fixtures.

B 0844 309
BUYING FOR DISTRIBUTION 2.0
 Functions of the merchandising division; the buyer and merchandising problems. Also customer demand analysis, comparison shopping, planning the buyer's budget. Buying fashions, staples for independent, chain and resident buying offices, and foreign buying.

B 0844 348
PRACTICUM IN DISTRIBUTIVE EDUCATION I 1.0
 Junior professional experience for distributive education majors. Observation of distributive education classes and DECA activities. Teaching distributive subjects in community programs and governmental agencies.
Prerequisite: Acceptance in teacher education program in distributive education, or acceptance into retail management.

B 0844 450
SUPERVISED WORK EXPERIENCE AND SEMINAR I 2.0
 Full-time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited-price variety store. Weekly evening seminar on store activities and the development of executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer, following sophomore and junior years.
Prerequisites: B 0844 208, F 0509 341, majors only.

B 0844 451
SUPERVISED WORK EXPERIENCE AND SEMINAR II 2.0
 Full time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited price variety store, weekly evening seminar on store activities and the development executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer following sophomore and junior years.
Prerequisites: B 0844 208, F 0509 341.

B 0844 454
PRINCIPLES AND METHODS OF TEACHING
DISTRIBUTIVE EDUCATION AND COORDINATION 3.0
 Federal legislation as it relates to the program; coordinator's duties; methods of teaching store subjects; lecture and demonstrations in teaching forms, reports and manuals; planning the lesson; human relations for store personnel; visual aids; textbook evaluation; trade journal use; and the DE club as a teaching device.
Prerequisite: B 0844 455.

B 0844 455
CURRICULUM DEVELOPMENT OF
DISTRIBUTIVE EDUCATION 3.0
 Objectives of distributive education; organizing, administering, planning and supervising a complete cooperative program. Organization of vocational education on the federal, state and local levels; developing vocational competencies in curriculum; evaluation of curriculum; surveys of community and student needs; physical equipment requirements; advisory committees; and the use of public relations and extension programs.

B 0844 482
THE INDEPENDENT OWNED AND
FRANCHISED RETAILER 3.0
 The principles and problems related to the independent and franchised retailer are discussed in theoretical and practical perspective. Lecture, research and case problems will integrate all steps from starting the business to evaluating the problems related to the business.
Prerequisite: B 0844 309.

B 0844 483
SEMINAR IN RETAIL MERCHANDISING AND
MANAGEMENT 3.0
 Advanced problems in retail merchandising are covered. Lectures, research, visiting experts and case problems will integrate all previous courses taught. Strong emphasis will be placed on fashion and the computer in today's retail scene.
Prerequisite: B 0844 307, 482.

B 0845 207
WORD PROCESSING APPLICATIONS 3.0
 Enables students to develop competencies in handling word processing equipment by means of hands-on experiences using automated typewriters, text-editing equipment, and machine dictation/equipment. Simulation projects will be utilized to integrate the origination, workflow, work measurement, storage, and distribution procedures unique to word processing environments.
Prerequisite: B 0838 104, majors only.

B 0845 230
INTRODUCTION TO BUSINESS WORK
EXPERIENCE 4.0-8.0
 This is an introductory cooperative education course which integrates formal classroom study and assignments with a supervised full-time or part-time off campus employment experience. The purpose of this course is to develop self awareness and explore educational and occupational alternatives.
Prerequisite: Sophomore level status, with 2.25 minimum grade point average.

B 0845 308
PRINCIPLES OF OFFICE MANAGEMENT 3.0
 A study of the most acceptable methods and practices of office administration. Topics include organization and planning of office systems, leadership and human relations, controlling operations, and processing of information. Emphasis throughout the course will be on achieving satisfactory human relations and continuous cost reduction.

B 0845 320
BUSINESS COMMUNICATIONS 3.0
 This course is designed to equip the students with a package of theoretical, written, and oral communication techniques applicable to the business domain.

B 0845 321
RECORDS MANAGEMENT 3.0
 Includes study of the criteria and methods by which records are created, stored, retrieved, retained and disposed, as well as attention to study of the managerial considerations necessary for effective selection and utilization of equipment, procedures, and personnel.

B 0845 330
OFFICE SYSTEMS ADMINISTRATION PROFESSIONAL
WORK EXPERIENCE PROGRAM 4.0-8.0
 This is a cooperative education course specifically for Office Systems Administration majors. The course integrates formal classroom study and assignments with supervised full-time off-campus employment. It has as its primary goals the development of occupational competencies and pre-professional training.

B 0845 409
WORD PROCESSING MANAGEMENT 3.0
 An understanding of the need and effect of word processing on business productivity. Word processing systems will be investigated with emphasis on personnel, equipment needs, and cost savings.

B 0845 410
MICROGRAPHICS 3.0
 This course is designed to introduce students to micrographics and its applications in the business office. Basic concepts, terminology, and systems design and management will be emphasized
Prerequisite: B 0845 321.

B 0845 411
MANAGING AUTOMATED OFFICE SYSTEMS 3.0
 Needed competencies for organizing and administering an automated office system will be emphasized. A systematic approach to designing, implementing, controlling, and integrating electronic office systems will be stressed. Various configurations, available technology and evaluation methods for assessing present and future systems will be investigated.

B 0845 430
SEMINAR IN OFFICE SYSTEMS ADMINISTRATION 3.0
 Current developments in office systems administration will be investigated by student research teams in contemporary administrative office environments. Emphasis will be on helping students develop investigative and analytical skills.



Chemistry

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

Chairperson: John L. Isidor

A student who chooses the chemistry major can prepare for graduate study in chemistry or biochemistry, professional employment, professional education in fields related to science, or teacher certification. The courses meet the undergraduate criteria established by the American Chemical Society (ACS). The chemistry major is included in the ACS list of approved programs. The student can complete ACS requirements and be certified to the Society upon graduation.

The curriculum is designed for students who have had high school chemistry, biology and physics, as well as four years of high school mathematics.

The department sponsors a challenging honors program for chemistry majors with outstanding academic records (at least 3.70 grade point average). Those interested should see the department chairperson for information.

A Bachelor of Science degree is awarded to graduates in the chemistry major.

Chemistry Major

Required Courses

	Semester Hours
1905 120, 121 General Chemistry I, II	8
1905 230, 231 Organic Chemistry I, II	6
1905 232, 233 Experimental Organic Chemistry I, II	4
1905 310 Analytical Chemistry	5
1905 311 Instrumental Methods of Analysis	4
1905 340, 341 Physical Chemistry I, II	6
1905 342 Experimental Physical Chemistry I	2

Collateral Courses

Select three Mathematics courses from:

1701 122, 221, 222	Calculus I, II, III	
1701 420	Differential Equations	12

Select two Physics courses:

Z 1902 191, 192	General Physics I, II	8
-----------------	-----------------------	---

Electives (Major) 6

Select 6 semester hours from the appropriate list to be obtained from the department.

Chemistry Minor

Required Courses

	Semester Hours
1905 120, 121 General Chemistry I, II	8
1905 230, 231 Organic Chemistry I, II	6
1905 232, 233 Experimental Organic Chemistry I, II	4

Select one set

1905 310	Analytical Chemistry	5
1905 340, 342	Physical Chemistry I, and Experimental Physical Chemistry I	5
1905 423, 422	Advanced Inorganic Chemistry and Experimental Inorganic Chemistry	6
or		
1905 370, 372	Biochemistry, and Experimental Biochemistry	5

Special Program Requirements

Semester Hours

B.S. in Chemistry with American Chemical Society Certification	10
--	----

In addition to taking the course requirements in the chemistry major program as detailed above, a student who wishes to fulfill the minimum requirements for professional training of the American Chemical Society should elect the following courses:

1. Two of the following courses:*

X1905 410	Advanced Quantitative Analysis	4
X1905 423	Advanced Inorganic Chemistry	3
X1905 430	Advanced Organic Chemistry	3
X1905 440	Physical Chemistry III	3

2. X1905 495 The Chemical Literature 1

3. One of the following:

X1905 498	Senior Laboratory	3
X1905 499	Undergraduate Research	minimum of 3

*Courses used to fulfill the elective requirement of the chemistry major cannot also be used to fulfill requirement #1 for ACS Certification. This restriction does not apply to ACS Certification requirements 2 and 3.

The learning of certain other skills may be essential in an undergraduate chemistry program. This decision must be made by the student and his advisor. Included in this group are:

Foreign Language: a reading knowledge of German, Russian or French.

Mathematics: Linear algebra.

Computer Science: programming ability in BASIC and FORTRAN.

Honors Program in Chemistry

Chemistry majors can apply for admission to the honors program in chemistry during their sophomore or junior years. Students accepted into the program will be required to take (in addition to the regular chemistry major) the following courses:

	Semester Hours
1905 491 Honors Seminar in Chemistry	2
1905 492 Honors Thesis in Chemistry	2

Interested students should contact the department chairperson.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. In addition, for the Comprehensive Science and Physical Science certificates, one biology course and Z 0834 0401 The Teaching of Science in Secondary Schools must be taken.

Second Teaching Field in Physical Science

Students majoring in a field other than chemistry and who desire certification in chemistry may take the physical science program. In addition to the certification program in their major field, the students must take the following courses:

1902 191, 192	General Physics I, II	8
Physics Elective		4
1905 120, 121	General Chemistry I, II	8
1905 230, 232	Organic Chemistry I and Experimental Organic Chemistry I	5

Courses of Instruction

X 1905 100
INTRODUCTORY CHEMISTRY 4.0
 An introductory lecture and laboratory survey course in modern chemistry for non-science majors.

X 1905 102
CHEMISTRY AND THE HUMAN ENVIRONMENT 3.0
 An introductory chemistry course for non-science majors which emphasizes a chemical understanding of substances in our environment such as plastics, pesticides, food additives, drugs, water and air pollutants, and fuels.

X 1905 107
COLLEGE CHEMISTRY I 2.0
 Introductory chemistry course for non-science majors. Fundamentals of inorganic, organic and biochemistry.

X 1905 108
COLLEGE CHEMISTRY II 2.0
 Introductory chemistry course for non-science majors. Fundamentals of inorganic, organic and biochemistry.
Prerequisite: X 1905 107.

X 1905 109
COLLEGE CHEMISTRY LABORATORY I 1.0
 Laboratory work to reinforce basic concepts of chemistry. Two hour laboratory.
Concurrent with X 1905 107.

X 1905 110
COLLEGE CHEMISTRY LABORATORY II 1.0
 Laboratory work to reinforce basic concepts of organic chemistry and biochemistry. Two hour laboratory.
Concurrent with X 1905 108.

X 1905 111
ELEMENTS OF CHEMISTRY I 3.0
 Basic concepts of chemistry as applied to inorganic and organic compounds.

X 1905 112
ELEMENTS OF CHEMISTRY II 3.0
 A study of human biochemistry with emphasis on biomolecules, metabolism, and bioenergetics.

X 1905 120
GENERAL CHEMISTRY I 4.0
 Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to atomic and molecular structure, bonding, thermochemistry, kinetics, chemical equilibrium, electro-chemistry, and selected topics. Laboratory stresses techniques and data treatment and their use in examining chemical systems.
Prerequisite: Instructor's permission or previous chemistry course.

X 1905 121
GENERAL CHEMISTRY II 4.0
 Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to atomic and molecular structure, bonding, thermochemistry, kinetics, chemical equilibrium, electro-chemistry and selected topics. Laboratory stresses techniques and data treatment and their use in examining chemical systems.
Prerequisite: X 1905 120.

X 1905 130
FUNDAMENTALS OF ORGANIC CHEMISTRY 4.0
 Survey of organic chemistry covering all major classes, nomenclature, and characteristic class reactions. (3 hrs. lecture, 2 hrs. laboratory.)
Prerequisite: X 1905 107 or equivalent.

X 1905 195
PROBLEM SOLVING-GENERAL CHEMISTRY 1.0
 Course designed to help students in application of elementary arithmetic with emphasis on individual needs.

X 1905 230
ORGANIC CHEMISTRY I 3.0
 Modern concepts of the chemistry of aliphatic and aromatic carbon compounds, their preparation, isolation, reactions and properties.
Prerequisite: X 1905 121.

X 1905 231
ORGANIC CHEMISTRY II 3.0
 Modern concepts of the chemistry of aliphatic and aromatic carbon compounds, their preparation, isolation, reactions and properties.
Prerequisite: X 1905 230.

X 1905 232
EXPERIMENTAL ORGANIC CHEMISTRY I 2.0
 A laboratory course to be taken concurrently with X 1905 230. Basic laboratory techniques and experiments in organic chemistry.
Prerequisite: X 1905 121.

X 1905 233
EXPERIMENTAL ORGANIC CHEMISTRY II 2.0
 A laboratory course to be taken concurrently with X 1905 231. Basic laboratory techniques and experiments in organic chemistry.
Prerequisite: X 1905 232.

X 1905 270
FUNDAMENTALS OF BIOCHEMISTRY 5.0
 Structure and function of the biomolecules and the metabolic interrelationships in the cell. (4 hrs. lecture, 3 hrs. laboratory)
Prerequisite: X 1905 130.

X 1905 310
ANALYTICAL CHEMISTRY 5.0
 Introduction to concepts of classical analytical chemistry including evaluation of data and apparatus, theory and application of volumetric and gravimetric and methods and redox equilibrium and introduction to electrical methods.
Prerequisites: X 1905 231, 233.

X 1905 311
INSTRUMENTAL METHODS OF ANALYSIS 4.0
 Introduction to application of instrumental methods of analytical chemistry. Instrument techniques studies will include spectrophotometry, electroanalytical chemistry, chromatography, nuclear magnetic resonance and mass spectrometry. Theory and application will be examined in lecture and laboratory.
Prerequisite: X 1905 310.

X 1905 320
ENVIRONMENTAL CHEMICAL ANALYSIS 3.0
 A study of the sources, reactions, transport, effects, and fates of chemical species in the environment. Lecture and laboratory will stress the theory, methodology, instrumentation, and techniques of air, water, and soil analysis for contaminants. (Two hours of lecture and two hours of laboratory.)
Prerequisite: X 1905 233.

X 1905 340
PHYSICAL CHEMISTRY I 3.0
 Thermodynamics, homogeneous and heterogeneous equilibria, gases, electrochemistry, solutions, colligative properties.
Prerequisites: X 1905 231, Z 1902 192, Y 1701 222.

X 1905 341
PHYSICAL CHEMISTRY II 3.0
 Kinetics, photochemistry, molecular physical chemistry.
Prerequisites: X 1905 340, Z 1902 192, Y 1701 222.

X 1905 342
EXPERIMENTAL PHYSICAL CHEMISTRY I 2.0
 A laboratory course to be taken concurrently with X 1905 340. Application and experience with modern techniques of physical chemistry.
Prerequisites: X 1905 231, Z 1902 192, Y 1701 222.

X 1905 370
BIOCHEMISTRY 3.0
 Proteins, enzymes, nucleic acids, carbohydrates, lipids, organization of the living cell, intermediate metabolism and biosynthesis.
Prerequisite: X 1905 231.

X 1905 372
EXPERIMENTAL BIOCHEMISTRY 2.0
 Laboratory studies of carbohydrates, lipids, and proteins, enzyme action, using biochemical techniques. Opportunity is provided for individual projects.
Prerequisite: X 1905 370.

X 1905 423
ADVANCED INORGANIC CHEMISTRY 3.0
 Physical basis of inorganic structure and reactivity. Electronic structure of atoms, ionic and covalent bonding, acid/base chemistry, the chemistry of aqueous and nonaqueous solutions, coordination chemistry and chemical periodicity.
Prerequisite: X 1905 340.

X 1905 430
ADVANCED ORGANIC CHEMISTRY 3.0
 Consideration of structural and electronic theories which form the basis of organic chemistry.
Prerequisite: X 1905 231.

X 1905 440
PHYSICAL CHEMISTRY III 3.0
 Quantum mechanics, bonding theory, atomic structure, statistical thermodynamical calculations.
Prerequisites: Y 1701 420, 315.

X 1905 445
RADIOCHEMISTRY 3.0
 Introduction to radioactive decay, nuclear structure, interactions of radiations with matter, nuclear reactions and energetics. Emphasis on applications of radioactive materials to chemical studies and chemical analysis of nuclear systems.
Prerequisite: X 1905 340.

X 1905 490
SELECTED TOPICS IN CHEMISTRY 2.0-3.0
 In-depth study of a modern aspect of chemistry.
Prerequisite: X 1905 231, instructor's permission.

X 1905 491
HONORS SEMINAR IN CHEMISTRY 2.0
 Seminars and discussions on selected areas in chemistry under faculty guidance for students enrolled in the honors program in chemistry.
Prerequisite: Admission to the honors program in chemistry or permission of the chemistry honors committee.

X 1905 492
HONORS THESIS IN CHEMISTRY 2.0
 Preparation and oral presentation of a comprehensive written thesis in chemistry under guidance of a faculty mentor for completion of the honors program in chemistry.
Prerequisite: X 1905 491.

X 1905 495
THE CHEMICAL LITERATURE 1.0-2.0
 The chemical literature and techniques of extracting information from it.

X 1905 498
SENIOR LABORATORY 3.0
 Multi-disciplinary laboratory study of the synthesis, separation, and characterization of chemical compounds.
Prerequisites: X 1905 311, 341, 343.

X 1905 499
UNDERGRADUATE RESEARCH 1.0-3.0
 Laboratory work on a specific problem in chemistry under guidance of a faculty sponsor.
Prerequisites: 27 hrs. in chemistry and instructor's permission.

Classics

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Timothy Renner

Classical studies are an excellent foundation for a wide variety of careers, including law, business, medicine, journalism, diplomacy, teaching and many others. The department offers three major programs leading to the Bachelor of Arts degree: Classics, a broad major in ancient civilization; Latin, which emphasizes literature in the original language and includes work in Greek; and Latin (Teacher Education), which leads to teacher certification in New Jersey. Minors in Classics, Latin, Greek, and (with the cooperation of other departments) archaeology are also available. Students going on to graduate school in classics may need to take additional work in the languages and should consult the department about this.

Students majoring in other areas can profit from a knowledge of ancient culture and of Greek or Latin. For example, studying the ancient languages often helps to improve one's command of English. Also, a basic familiarity with Greek and Roman literature, history, archaeology, religion, or law can provide a new and different perspective on contemporary civilization.

Classics Major

Required Courses

	Semester	Hours
4903 281 Greek Civilization	3	
4903 282 Roman Civilization	3	

Electives (Major)

A. Select 5 courses from Latin (1109) and Greek (1110), including at

least one course at the 200 level or above*	15
B. Select 12 semester hours (including at least two courses at the 300 level or above) from the appropriate list to be obtained from the department	12

Latin Major

Required Courses

	Semester Hours
1110 101, 112 Beginning Greek I, II	6
6 Latin language and literature courses at the 200 level or above, including at least two of the following: 1109 201 Latin Literature of the Republic, 1109 202 Latin Literature of the Golden Age, 1109 203 Latin Literature of the Silver Age*	18

Electives (Major)

Select 3 courses from departmental list (4903 281 Greek Civilization, 4903 282 Roman Civilization, and other 4903 courses dealing with ancient history, archaeology, and classical civilization are especially recommended) 9

Latin Major (Teacher Education)

Required Courses

6 Latin language and literature courses at the 200 level or above, including at least two of the following: 1109 201 Latin Literature of the Republic, 1109 202 Latin Literature of the Golden Age, 1109 203 Latin Literature of the Silver Age*	18
1109 419 Methods of Teaching Latin	3

Electives (Major)

Select 4 courses from departmental list (1110 101, 112 Beginning Greek I, II; 4903 281 Greek Civilization; and 4903 282 Roman Civilization are especially recommended) 12
 *Latin courses at the 200 level and above are taught on a four-year cycle.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Second Teaching Field in Latin

Students will choose 24 semester hours from the offerings in Latin language and literature.

Latin Minor

Students will take 18 semester hours in Latin language and literature (1109), to be chosen in consultation with a faculty advisor from the department.

Greek Minor

Students will take 18 semester hours in Greek language and literature (1110), to be chosen in consultation with a faculty advisor from the department.

Classics Minor

Students will take 18 semester hours in the department. All the work may be done in classical civilization and humanities courses, or the student may pursue studies in Greek and Latin language and literature.

Courses of Instruction

Latin

K 1109 101
 BEGINNING LATIN I 3.0
 The fundamentals of classical Latin grammar. Reading of simple Latin texts.

K 1109 112
 BEGINNING LATIN II 3.0
 The continuation of Beginning Latin I. Fundamentals of Latin grammar and reading of selected Latin texts.
Prerequisite: K 1109 101 or equivalent.

K 1109 121
 INTERMEDIATE LATIN I 3.0
 Review of grammar. Selected readings from Latin prose and poetry.
Prerequisite: K 1109 112 or equivalent.

K 1109 132
 INTERMEDIATE LATIN II 3.0
 Review of grammar. Selected readings from Latin prose and poetry.
Prerequisite: K 1109 121 or equivalent.

K 1109 201
 LATIN LITERATURE OF THE REPUBLIC 3.0
 A historical survey of the highlights of Latin literature from its beginnings to the death of Cicero. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context.
Prerequisite: K 1109 132 or equivalent.

K 1109 202
 LATIN LITERATURE OF THE GOLDEN AGE 3.0
 A historical survey of the highlights of Latin literature from the Second Triumvirate through the early Julio-Claudian period. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context.
Prerequisite: K 1109 132 or equivalent.

K 1109 203
 LATIN LITERATURE OF THE SILVER AGE 3.0
 A historical survey of the highlights of Latin literature from the Neronian period through the second century of the Christian era. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context.
Prerequisite: K 1109 132 or equivalent.

K 1109 204
 LATIN LITERATURE OF THE MIDDLE AGES 3.0
 The highlights of Latin literature from the disintegration of the Roman Empire in the West to the beginning of the Renaissance. Selections from poetry, history, philosophy, theology, and popular literature will be read with attention to style, development of the language, and historical context.
Prerequisite: K 1109 132 or equivalent.

K 1109 251
 ROMAN LETTER WRITING 3.0
 The public figure and the private citizen seen through the letters of Cicero and Pliny. The letters as evidence for Roman political and social history.
Prerequisite: K 1109 132 or equivalent.

K 1109 252
ROMAN DRAMA 3.0
 Selected comedies of Plautus and Terence with attention to style, form, dramatic technique, and literary ancestry. The influence of Roman comedy on subsequent European drama.
Prerequisite: K 1109 132 or equivalent.

K 1109 253
THE EPIC AND VERGIL 3.0
 Readings primarily from the *Aeneid* but including selections from the *Georgics* and *Eclogues*. Vergil as a literary artist and his role in the development of the epic in western literature.
Prerequisite: K 1109 132 or equivalent.

K 1109 254
ROMAN LYRIC POETRY 3.0
 Readings from the lyrics of Catullus and Horace, with particular emphasis on style, themes, and metrics.
Prerequisite: K 1109 132 or equivalent.

K 1109 255
OVID 3.0
 Selections from Ovid's works, principally the *Metamorphoses*, *Ars Amatoria*, *Amores*, and *Heroides*. Ovidian style, humor, and use of literary myth. Ovid's influence on literature and the arts.
Prerequisite: K 1109 132 or equivalent.

K 1109 284
CICERO AND ANCIENT PHILOSOPHY 3.0
 Cicero's philosophical essays with special attention to his role as a transmitter of Greek philosophy to the Roman and later western world.
Prerequisite: K 1109 132 or equivalent.

K 1109 310
LATIN COMPOSITION 3.0
 Practice in writing Latin prose in conjunction with review of grammar. Readings in selected Latin authors with a view toward acquiring familiarity with different prose styles.
Prerequisite: K 1109 132 or equivalent.

K 1109 351
ROMAN HISTORIANS 3.0
 Selected readings from Sallust, Livy, and Tacitus. The development of Roman historiography in the context of Roman history and the Greek historiographical background.
Prerequisite: K 1109 132 or equivalent.

K 1109 352
ROMAN SATIRE 3.0
 Readings from Horace, Juvenal, Petronius, and others. Different forms and definitions of satire. The Latin contribution to satire in western literature.
Prerequisite: K 1109 132 or equivalent.

K 1109 361
CAESAR: THE END OF THE REPUBLIC 3.0
 Selected readings from the *De Bello Gallico* and *De Bello Civili*. Caesar as a politician, general, man of letters, and historical source on his own conquests.
Prerequisite: K 1109 132 or equivalent.

K 1109 410
ADVANCED LATIN GRAMMAR 3.0
 Linguistic analysis of Latin grammar based on examples from classical authors. Practice in writing Latin prose.
Prerequisite: One Latin course at the 200 level or above; or permission of instructor.

K 1109 419
METHODS OF TEACHING LATIN 3.0
 The history of methodology together with new approaches and techniques. The development of a Latin curriculum, including evaluation of textbooks and construction of lesson plans, reviews, and tests.
Prerequisite: Three Latin courses at the 200 level or above.

K 1109 478
ADVANCED LATIN READINGS 3.0
 Intensive reading and study of a selected author, genre, period, or theme in Latin literature.
Prerequisite: Permission of the department.

Greek

K 1110 101
BEGINNING GREEK I 3.0
 The fundamentals of ancient Greek grammar. Reading of simple texts.

K 1110 112
BEGINNING GREEK II 3.0
 The continuation of Beginning Greek I. The fundamentals of grammar and reading of selected texts.
Prerequisite: K 1109 101 or equivalent.

K 1110 121
INTERMEDIATE GREEK I 3.0
 Review of grammar. Selected readings from Greek prose and poetry.
Prerequisite: K 1109 112 or equivalent.

K 1110 132
INTERMEDIATE GREEK II 3.0
 Review of grammar. Selected readings from Greek prose and poetry.
Prerequisite: K 1109 121 or equivalent.

K 1110 261
GREEK NEW TESTAMENT 3.0
 Selected readings from the New Testament with attention to historical context and to the nature and development of Koine Greek.
Prerequisite: K 1110 132 or equivalent.

K 1110 262
GREEK EPIC POETRY 3.0
 Representative selections from the *Iliad* and *Odyssey*. Homer as an oral poet.
Prerequisite: K 1110 132 or equivalent.

K 1110 351
ATTIC ORATORS 3.0
 Representative works of Lysias, Isocrates, Demosthenes, and others. The orators as stylists and as a source for political and social history.
Prerequisite: K 1110 132 or equivalent.

K 1110 352
GREEK TRAGEDY 3.0
 Selected plays of Aeschylus, Sophocles, and Euripides. The metrics, style, themes, and structure of Attic tragedy. The influence of the Greeks on western drama.
Prerequisite: K 1110 132 or equivalent.

K 1110 361
GREEK HISTORIANS 3.0
 Readings from Herodotus, Thucydides, and Xenophon. The development of Greek historiography as a literary genre and as a medium for reporting events.
Prerequisite: K 1109 132 or equivalent.

K 1110 451 3.0
GREEK PHILOSOPHERS
 Selected readings, especially from Plato's dialogues concerning the trial and death of Socrates. The Greek philosophical tradition and its development in the Archaic and Classical periods.
Prerequisite: K 1109 132 or equivalent.

K 1110 452 3.0
GREEK LYRIC POETS
 Readings from the principal lyric, iambic, and elegiac poets, primarily those of the Archaic period. The development of theme, structure, and metre.
Prerequisite: K 1110 132 or equivalent.

Classical Civilization and Humanities
 (All courses taught in English)

K 4903 181 3.0
CLASSICAL ARCHAEOLOGY
 The science of evaluating Greco-Roman and closely related cultures through observation and analysis of their physical remains. Problems and methods of dating artifacts and sites. Building materials, types, and decorations. Field trip in addition to illustrated lectures and discussions.

K 4903 182 3.0
ENGLISH VOCABULARY: CLASSICAL ROOTS
 Systematic development of the student's knowledge of English vocabulary through study of the most important Greek and Latin roots, prefixes, suffixes, and other elements and the ways in which they are used to form words in English.

K 4903 253 3.0
INTRODUCTION TO GREEK LITERATURE
 Readings in English translation from selected ancient Greek epic, lyric, drama, historiography, philosophical and scientific writings, oratory. Literary forms, themes, and trends from Homer to the Hellenistic age.

K 4903 281 3.0
GREEK CIVILIZATION
 The political, social, economic, and cultural history of the Greek world from the Bronze Age to the Roman conquest as seen through literary, documentary, and archaeological sources. (Also listed under History as P 2205 281.)

K 4903 282 3.0
ROMAN CIVILIZATION
 The political, social, economic, and cultural history of the Roman world from the Regal Period to Justinian as seen through literary, documentary, and archaeological sources. (Also listed under History as P 2205 282.)

K 4903 285 3.0
MYTHOLOGY
 The nature and interpretation of mythology, primarily as seen through the myths of Greece and Rome. Selected comparative study of myths of the Near East, Iran, India, and other cultures.

K 4903 351 3.0
THE CITY IN ANTIQUITY
 Cities and city-based culture in the Greek and Roman world seen through the evidence of archaeology, literary sources, and contemporary documents such as inscriptions. Town planning, economic life, social groups, and population patterns in selected ancient cities.

K 4903 375 3.0
STUDY ABROAD
 Approved study-travel programs at selected universities, classical sites, museums. Credit by evaluation.

K 4903 383 3.0
WOMEN IN ANTIQUITY
 Women in the ancient world and their contributions to history, literature, philosophy, and the arts. Emphasis on Greco-Roman civilization, with comparative study of other ancient cultures.

K 4903 384 3.0
INTRODUCTION TO ROMAN LAW
 The role of law in Roman history and society. Social structure and family law. The law and slavery. Property, contracts, and delicts. Legal forms, legal fictions, and the response of law to new conditions. Roman law in the medieval and modern periods.

K 4903 470 3.0
SEMINAR IN CLASSICAL HUMANITIES
 Topic to be selected according to faculty and student interest and developed through an interdisciplinary approach.
Prerequisite: Permission of department.



1220 468	Clinical Procedures in Audiology	3
1220 469	Problems of the Hearing Impaired	3
1220 473	Organization and Administration of Speech and Hearing Programs	3
1220 483	Language Disorders of Children	3

*Fulfills speech communications requirement for majors.

Note: Majors are urged to take Psychology of Exceptional Children and Youth to complete the state certification requirement.

Electives

Select courses from the appropriate list to be obtained from the departmental advisors.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Courses of Instruction

L 1220 100 FIELDS OF COMMUNICATION SCIENCES AND DISORDERS 3.0

An orientation to practices in the field, philosophies of rehabilitation, areas of scientific inquiry and the relationship with other disciplines and specialties.

L 1220 101 FUNDAMENTALS OF SPEECH: COMMUNICATIONS REQUIREMENT 3.0

Understanding the process of oral communication and improving personal skills in speaking and listening. Developing clear, effective comprehension and expression of the spoken American-English language. Fulfills General Education Requirement - Speaking/Listening for non-majors.

L 1220 103 FUNDAMENTALS OF VOICE AND SPEECH PRODUCTION 3.0

Theory and practice of efficient voice production and accurate articulation. Students receive guidance in the improvement of their own speech skills.

L 1220 104 PHONETIC STUDY OF SPEECH SOUNDS 3.0

The articulation of sounds of American English, developing an understanding of articulatory features using the International Phonetic Alphabet.

L 1220 202 ACQUISITION OF SPEECH AND LANGUAGE 3.0

The development of a first language in the child. Acquisition of syntactic, semantic, pragmatic, and phonological systems studied in a cognitive-linguistic framework.

Prerequisite: L1220 104.

L 1220 205 NOISE POLLUTION- CONTEMPORARY PROBLEMS AND ISSUES 3.0

The study of noise, noise pollution, the psycho-physical effects of noise, noise control, and hearing conservation.

L 1220 207 HEARING SCIENCE 3.0

Basic acoustics, anatomy and physiology of the auditory mechanism, and a clinical orientation to impairments of hearing.

Communication Sciences and Disorders

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Joseph S. Attanasio

The undergraduate curriculum in communication sciences and disorders provides a foundation for professional specialization at the master's level. Students progress through a sequence which emphasizes the normal use and development of speech, hearing and language. Subsequent courses consider the nature of communication disorders and principles related to their management. Supervised clinical experience with children and adults presenting communication disorders is available in the on-campus Communication Disorders Center, in the public schools and at special centers and clinical facilities in the community.

The program is designed to prepare students to obtain certification by the New Jersey State Department of Education in speech correction (speech-language pathology) for grades kindergarten through twelve. To that end, students are required to enter the teacher education program described in this catalog. The master's degree is a requirement for most employment in the field of communication disorders.

On completing the undergraduate curriculum, students pursue graduate study and concentrate in speech-language pathology, audiology, learning disabilities, teaching the deaf and hearing impaired, or early childhood special education. A post-baccalaureate certification program in teacher of the handicapped is available. The undergraduate and graduate programs in communication sciences and disorders prepare the student to fulfill the requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association.

Communication Sciences and Disorders Major

Required Courses

	Semester Hours
1220 100 Fields of Communication Sciences and Disorders	3
1220 103 Fundamentals of Voice and Speech Production*	3
1220 104 Phonetic Study of Speech Sounds	3
1220 202 Acquisition of Speech and Language	3
1220 207 Hearing Science	3
1220 208 Anatomy and Physiology of the Speech System	3
1220 209 Voice and Articulation Disorders	3
1220 210 Development of Communication Skills in Children: Methods and Materials	3
1220 410 Neurophysiological Disorders of Communication	3
1220 411 Psychodynamics of Communication Disorders	3
1220 412 Diagnosis of Communication Disorders	3
1220 461 Introductory Practicum in Communication Disorders	3
1220 462 Intermediate Practicum in Communication Disorders	3
1220 464 Psychology of Oral Communication	3

L 1220 208
ANATOMY AND PHYSIOLOGY OF
THE SPEECH SYSTEM 3.0
 The anatomical and physiological basis of respiration, phonation and articulation-resonation.

L 1220 209
VOICE AND ARTICULATION DISORDERS 3.0
 Voice and articulation problems of pre-school and school-age children. Strategies, techniques and materials for evaluation and remediation.
Prerequisites: L 1220 103, 104, 208.

L 1220 210
DEVELOPMENT OF COMMUNICATION SKILLS IN
CHILDREN: METHODS AND MATERIALS 3.0
 The development of oral communication skills in children within basic school curriculum. Speech improvement techniques through storytelling, creative dramatics, choral speaking and oral interpretation, listening activities and content analysis.
Prerequisites: L 1220 104, 202, 209.

L 1220 410
NEUROPHYSIOLOGICAL DISORDERS OF
COMMUNICATION 3.0
 Etiology and pathology of major language and speech disorders resulting from impaired functioning of the nervous system; diagnosis and rehabilitation.
Prerequisites: L 1220 104, 202, 208, 209.

L 1220 411
PSYCHODYNAMICS OF COMMUNICATION
DISORDERS 3.0
 Psychological aspects of communication disorders. The nature, diagnosis and treatment of stuttering in children and adults. The nature of counseling and psychotherapy.
Prerequisites: L 1220 104, 202, 209, at least 6 semester hours in psychology.

L 1220 412
DIAGNOSIS OF COMMUNICATION DISORDERS 3.0
 Formal and informal assessment procedures for the diagnosis of speech, voice and language disorders. Dynamics of interviewing and the reporting and interpreting of case histories.
Prerequisites: L 1220 209, 410, 411.

L 1220 461
INTRODUCTORY PRACTICUM IN COMMUNICATION
DISORDERS 3.0
 Supervised clinical practices with children and adults presenting a variety of communication disorders.
Prerequisites: L 1220 209, 210, 410, 412, 483; concurrent with L 1220 411.

L 1220 462
INTERMEDIATE PRACTICUM IN COMMUNICATION
DISORDERS 3.0
 Supervised clinical practice with children and adults presenting a variety of communication disorders.
Prerequisites: L 1220 209, 210, 410, 411, 412, 461, 483.

L 1220 464
PSYCHOLOGY OF ORAL COMMUNICATION 3.0
 Problems of interpersonal communication leading to confusion of meaning and misunderstanding. Effects of speech, language, hearing and emotional handicaps. Primary emphasis on disordered communication as a common situation in society. Listening as an active process, and therapy activity as an ongoing communicative event as well as a goal directed process.
Prerequisite: Junior standing.

L 1220 468
CLINICAL PROCEDURES IN AUDIOLOGY 3.0
 The measurement of hearing including pure tone tests, screening tests, interpretation of test results, problems of calibration, and medical and educational referral. Demonstrations and supervised practice testing.
Prerequisite: L 1220 207.

L 1220 469
PROBLEMS OF HEARING IMPAIRED 3.0
 Current theories and practices of speech reading, auditory training, hearing aid evaluation and educational placement. Psychological aspects of hearing loss. Interviewing and counseling the parents of the hearing impaired child.
Prerequisite: L 1220 468.

L 1220 473
ORGANIZATION AND ADMINISTRATION OF
SPEECH AND HEARING PROGRAMS 3.0
 Clinical programs in the public schools and other settings. Testing, scheduling, grouping and record-keeping. The role of the clinician in relation to administrators, teachers, specialists in related areas, parents and paraprofessionals.
Prerequisite: To be taken semester prior to student teaching.

L 1220 483
LANGUAGE DISORDERS OF CHILDREN 3.0
 Strategies for the assessment of language disorders and for the development of intervention programs.
Prerequisite: L 1220 202.

Counseling, Human Services and Guidance

SCHOOL OF PROFESSIONAL STUDIES

Chairperson: Arlene King

Counseling, Human Services, and Guidance deals with helping people understand and cope with the everyday world. In the undergraduate courses students can investigate personal values, the dynamics of interactions between individuals and in groups, communication skills, career exploration and leadership training to help build foundations for a life open to learning and enrichment. The department also includes counseling techniques for the alcoholism recovery process. These courses are designed to serve students from varied fields and interests.

This department also offers a Master's degree with concentrations involved in guidance and counseling, human services, and school social work.

Courses of Instruction

20826 328
PEER COUNSELING 3.0
 This course provides the student with actual peer counseling experience. This experience takes the form of one-to-one and group counseling. The student will experience the counseling process both as a counselor and as a client.

20826433
FACILITATING THE INTERACTIVE PROCESS I 3.0
Through observation, lectures, seminars and readings, students will gain understanding of the influence of norms, leadership styles, peers, and other factors on the development of a cohesive group. This experience is preparation for working facilitatively in small groups.

20826434
FACILITATING THE INTERACTIVE PROCESS II 3.0
This course provides the opportunity for students to gain practical experience in leading groups. Students will be expected to co-lead groups with staff members and be available to assist in all learning endeavors.
Prerequisite: 20826433.

20826450
INTRODUCTION TO ALCOHOLIC COUNSELING 3.0
This course provides the opportunity for students to have practical experience in counseling the recovering alcoholic. Students will gain an understanding of the etiological factors of alcoholism and their implications for counseling. Further, they will experience the specialized techniques used in counseling the recovering alcoholic.

20826482
CAREER CONSCIOUSNESS 3.0
This is a course in career skills that integrates schematic human relations training and problem solving techniques with the definition of career goals. The ultimate aim is to facilitate your successful exit from college. Fulfills General Education.

20842326, 327
EXPERIMENT IN COMMUNITY LIVING 3.0 each
The goal of the program is to integrate living and learning more closely by creating an atmosphere in which living is the experience that is the main source of learning. A seminar will provide the interpersonal and community skills necessary to enhance community living. Within the context of the seminar, the group will study and evaluate the process by which the community forms, through examination of the available literature and the living experience.

20842329
THEORIES AND TECHNIQUES OF GROUP PROCESSES 3.0
Given that we function in groups of all sizes and of various purposes throughout life, this course provides an understanding of the underlying dynamics of groups and provides the opportunity to relate the theories of group development to the actual group process.

20842330
DYNAMICS OF ONE-TO-ONE COMMUNICATION 3.0
This course is designed to examine the dynamics of one-to-one communication through readings and experientially. The course will further develop personal goals for optimizing personal communication and assist in establishing strategies for the attainment of these goals. Fulfills General Education Requirement.

20842331
GROUP DYNAMICS 3.0
This course is a seminar laboratory experience designed to facilitate human relationships. Focus is on individual behavior in groups. Participation in actual group process provides opportunity for development of insight into the effects of one's behavior on others. Fulfills General Education Requirement.

20842332
ACTION APPROACHES TO PERSONAL AWARENESS 3.0
Designed to increase personal awareness and to assist in developing skills needed to maximize individual growth in human interaction. Through the use of psychodrama and other action oriented techniques, students will have the opportunity to experience and develop strategies for working beyond barriers to effective interaction.

20842333
LEADERSHIP TRAINING 3.0
This course will demonstrate and utilize the special skills required for effective leadership.

20842335
THE LEGAL RIGHTS OF WOMEN 3.0
This course will include some historical background for clearer understanding of what the changes in laws mean for women and men. Discussion and study of the effect of Affirmative Action, Civil Rights legislation and Titles VI and IX will be included. Legal rights in the areas of education, employment, finances and credit, property ownership, marriage and divorce, health care, pensions and criminal law will be covered.

20842430
INTERACTION ANALYSIS 3.0
The purpose of this course is to help participants become more objective in their observations and reporting of interactions which they witness or in which they participate. Various observational tools and methods will be used in the gathering of objective data on three kinds of interaction (interpersonal, small group, and classroom).

20842432
PERSONAL VALUES 3.0
Designed to help each participant undertake a personal exploration of his own values, what they are and how he got them, and then consider alternatives available. Fulfills General Education.

Curriculum and Teaching

SCHOOL OF PROFESSIONAL STUDIES

Chairperson: Catherine Becker

Teaching has been called the immortal profession because of the impact it has on any society. The mission of the department of Curriculum and Teaching is the professional education of public school teachers. Its faculty coordinates the teacher education program and offers all the courses within the professional semester. Special care has been taken in the development of the undergraduate courses, most of which are taught in professional semester centers in selected public schools. In order to support the continuing professional growth of teachers, there are programs and courses at the graduate level.

Teacher Education Program

The Teacher Education program provides a sequence of professional courses and field experiences leading to teacher certification while the student majors in a particular field of interest. The graduate is certified to teach in all New Jersey public schools and is legally qualified to teach in other member states of the Interstate Certification Compact.

It is important that a student make the decision to apply for admission to the program (admission to the college is not admission to the Teacher Education program) as soon as possible. If application is made later than the end of the sophomore year, there may be some difficulty in completing the professional sequence in four years. Faculty members in the student's major field and in the department of Curriculum and Teaching should be approached early and will be happy to discuss courses and experiences that might help in the decision. The criteria for admission are:

1. Three recommendations, at least two from faculty members who know the applicant. One may be a former high school teacher who knows the applicant.

2. Cumulative overall average of at least 2.50 and a cumulative average of 2.50 with no failing grades in the major or in courses in the professional sequence are required for eligibility for student teaching.* (Some departments require a higher major average. Consult your advisor for information.)

3. Speech proficiency prerequisite.
4. Successful completion of prerequisite courses.
5. Successful completion of major course requirements.
6. Evidence of active interest in community affairs and teaching
7. Approval of a screening committee with representation from the School of Professional Studies and the student's major field.
8. Clearance by the Student Personnel Division.

When a student is notified of admission to the program, an advisor from the professional education sequence will be assigned who will help the student plan the sequence properly. Further information regarding the process of admission to teacher education can be secured from Dr. Joseph Venturini, Coordinator of Teacher Admission and Retention.

*NOTE: Some provisional admissions are made. Consult the department for information.

Professional Sequence for Teacher Certification

(All Teacher Education Candidates)

Required Courses

	Semester	Hours
2001 101	General Psychology I: Growth and Development	3
0821 220	Philosophical Orientation to Education	3
0830 407	Developmental Reading I	3
0830 408	Developmental Reading II	3
2001 200	Educational Psychology	3
	Major Departmental Methods	4
0829 200	Initial Field Experience	1
0829 410	Intermediate Experience in Education	1
0829 400	Teacher, School, and Society	3
0829 435	Effective Teaching/Productive Learning	2
0829 401	Senior Field Experience	1
0829 402	Seminar in Professional Education	1
	Departmental Seminar	1
0829 411	Supervised Student Teaching I	8

Speech Proficiency

This requirement must be met by passing a test or completing a speech course.

There are stages in the completion of the professional sequence that can be timed to be completed in four years. They include:

1. Decision to apply (freshman/sophomore)
2. Admission (sophomore)
3. Preparation and Registration for Field Experiences and Student Teaching (sophomore/junior)
4. The Professional Semester (senior)

For additional information about these stages and any requirements specific to them contact the chairperson of the department of Curriculum and Teaching.

Graduate and Special Programs

1. Certification Program (Post-Baccalaureate) – A program leading to a New Jersey teaching certificate for holders of the B.A. degree who do not wish to enter a graduate degree program.

2. Master of Arts in Teaching – Designed for liberal arts graduates who seek certification as teachers. Special options, including one with a focus on philosophy for children, are available. A track for certified teachers is also available.

Courses of Instruction

1 0829 200

INITIAL FIELD EXPERIENCE

1.0

Observations in schools and related class discussions. Emphasis on learner characteristics and behaviors; differences between learners and teaching processes at various age and grade levels, teacher roles, etc. are examined.

1 0829 400

TEACHER, SCHOOL AND SOCIETY

3.0

An overview of the field of education, includes a consideration of instructional, curricular, legal and professional issues affecting teachers, schools and society as well as implications for students. Normally part of the professional semester for full-time undergraduate students.

1 0829 401

SENIOR FIELD EXPERIENCE

1.0

Part of the professional semester. It is designed to provide for experiences in the community in which one student teaches to better understand the place of the school in the community. Placement in professional semester field center. Course only open to student teachers.

1 0829 402

SEMINAR IN PROFESSIONAL EDUCATION

1.0 or 2.0

Part of the professional semester. It provides an opportunity to discuss problems encountered in teaching with peers and supervisors and to find practical solutions to problems experienced. Placement in professional semester field center. Course only open to student teachers.

Prerequisite: 1 0829 410.

1 0829 410

INTERMEDIATE EXPERIENCE IN EDUCATION

1.0-3.0

Thirty hours per credit in a public school as assistant to the classroom or subject teacher. Observing, working with individuals and small groups of students, helping with clubs and student activities, teaching "mini-lessons" and becoming familiar with teacher activities. Each student keeps a log of activities. Pass/Fail. Class meetings on campus during the experience are arranged.

Prerequisite: Admission to teacher preparation program. Obtain course application from the Teacher Admissions office prior to registering for course.

1 0829 411

SUPERVISED STUDENT TEACHING

8.0

Student Teaching in the public schools of New Jersey is required of all students who complete the regular program of graduation requirements. Part of professional semester.

1 0829 412

FIELD WORK IN URBAN EDUCATION

1.0-3.0

Similar to 0829-410 with emphasis on tutoring and individual conferences in an urban public school. Student keeps a log of activities. Class meetings on campus. Pass/Fail.

Prerequisite: Admission to teacher preparation program. Obtain course application from the Teacher Admissions office prior to registering for course.

1 0829 413

FIELD WORK IN COMMUNITY AGENCIES

1.0-3.0

Thirty hours of guided experiences in public and private agencies. Objectives, scope and activities of agencies related to education. Preparation of report as specified on application form and log of activities. Pass/Fail. Class meetings on campus during the experience are arranged.

1 0829 414
IN-SERVICE SUPERVISED TEACHING I 4.0
Replaces supervised student teaching for those employed in teaching situations without standard certification. Joint supervision by the school district and college personnel. Student must have permission of department chairperson and the school district.
Corequisite: 1 0829 402.

1 0829 415
IN-SERVICE SUPERVISED TEACHING II 4.0
Continuation of In-service Supervised Teaching I. The corequisite seminar is replaced by a series of special in-service conferences included in the course.
Prerequisite: 1 0829 414.

1 0829 417
MUSIC EDUCATION SUPERVISED STUDY I 4.0
Supervised student teaching in a public school for one-half semester. Experience at elementary and secondary level. Students must consult advisor regarding other professional semester requirements. Eight credits required for certification. Limited to music majors.
Prerequisite: Admission to Teacher Education program. Registration with Student Teaching office.

1 0829 418
MUSIC EDUCATION SUPERVISED STUDY II 4.0
Supervised student teaching in a public school for one-half semester. Experience at elementary and secondary level. Students must consult advisor regarding other professional semester requirements. Eight semester hours required for certification. Limited to Music majors.

1 0829 420
INSTRUCTIONAL INNOVATIONS 3.0
New ways of organizing students, staff, curriculum, time and space, as well as independent study, group dynamics, programmed instruction and student evaluation.

1 0829 421
SEMINAR PROBLEMS OF A CLASSROOM TEACHER 1.0-3.0
Reviewing, evaluating and relating teacher aide and student teaching experiences to initial employment as a teacher. Analyzing strengths and weaknesses and making adaptations in techniques and practices. Should be taken concurrently with or immediately after experiences.
Prerequisite: Departmental permission.

1 0829 423
TEACHING IN URBAN SCHOOLS 3.0
Focuses on factors affecting teaching and learning in urban schools. Topics include the nature and structure of urban schools, recent innovations in urban settings, mores and family patterns in the inner city, and funding opportunities.

1 0829 435
EFFECTIVE TEACHING/PRODUCTIVE LEARNING 2.0
For students participating in teaching internship. Includes application of recent research findings for effective teaching in basic teaching skills such as communication, motivation, classroom discipline, evaluation.



Economics

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Frances Scher

The skill and competence of the economist is increasingly used in industry and labor organizations, in federal, state, and local governments, as well as in the academic world. As an economics major, the student specializes in knowledge that has become complex, operationally significant, and extremely relevant as world boundaries grow closer.

The economics department offers a Bachelor of Arts degree.

Economics Major

Required Courses:

	Semester Hours
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3
2204 203 Economic Statistics	3
2204 305 Intermediate Macroeconomic Analysis	3
2204 307 Intermediate Microeconomic Analysis	3

Note: A mathematics course is recommended.

Electives

Select 18 semester hours from the appropriate list to be obtained from the department 18

Economics Minor

The department maintains a minor program for all majors at the college. It involves the completion of 18 semester hours from the departmental courses, 6 of which should be Principles of Economics: Macro and Principles of Economics: Micro.

Courses of Instruction

C 2204 100
INTRODUCTION TO ECONOMICS 3.0
Major objectives and features of the American economy, including operations of a market economy, structure and function of business, money and banking, government and business relations.

C 2204 101
PRINCIPLES OF ECONOMICS: MACRO 3.0
A study of the American economy, analytically and institutionally; the achievement of an optimal allocation of resources, price stability, full employment, level of national income and long term growth.

- C 2204 102**
PRINCIPLES OF ECONOMICS: MICRO 3.0
 Organization and operation of the American economy for the production and distribution of goods and services. Pricing of products and factors of production in market situations varying from competition to monopoly. Resource allocation, price determination and behavior of the firm in the determination of quantity of output and the hiring of factors of production.
- C 2204 203**
ECONOMIC STATISTICS 3.0
 Basic elements of economic statistics including frequency distribution, sampling, index numbers, statistical inference, regression and correlation techniques.
- C 2204 204**
LABOR ECONOMICS 3.0
 The determinants of wages in the organized and unorganized markets. A historical survey and analysis of the principal institutions and central processes in the labor and manpower areas. An examination of current issues in labor relations.
Prerequisite: C 2204 101, or 102.
- C 2204 205**
COLLECTIVE BARGAINING: THEORY AND PRACTICE 3.0
 The development of collective bargaining in the United States and an analysis of the factors that account for present practices. The impact of collective bargaining on contemporary American life. Work in field.
Prerequisites: C 2204 101, 102.
- C 2204 213**
ECONOMIC HISTORY OF THE UNITED STATES 3.0
 Evolution of economic institutions with emphasis on development of domestic and foreign markets, technological changes and industrial growth. Analysis and interpretation of cyclical changes.
- C 2204 250**
SELECTED TOPICS IN ECONOMICS 3.0
 An in-depth study of a particular theoretical or applied area of economics.
- C 2204 300**
WORLD RESOURCES AND INDUSTRIES 3.0
 Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population-resource ratios. Examines world trend in production controls and market allocations. Also listed under Environmental, Urban and Geographic Science as N 2206 300.
- C 2204 301**
MONEY AND BANKING 3.0
 An analysis of the economic role of money and credit in our economy, with primary emphasis on federal reserve and treasury operations.
Prerequisite: C 2204 101, 102.
- C 2204 302**
FINANCIAL INSTITUTIONS 3.0
 The structure and operation of financial institutions, their role in the economy and in the money and capital markets. The techniques and objectives of monetary policy and its effect on financial institutions.
Prerequisites: C 2204 101, 102.
- C 2204 303**
ECONOMIC GROWTH AND DEVELOPMENT 3.0
 Problems of hastening the growth of countries with low incomes per person, the requisites for economic development, the obstacles to such development, the strategy and tactics of development and aid for development.
Prerequisite: C 2204 101 or 102.
- C 2204 304**
PUBLIC POLICIES TOWARD BUSINESS 3.0
 The economic organization of particular American industries. U.S. policy toward competition, monopoly and bigness in business. Government control of public utilities, transportation, radio and television broadcasting
Prerequisites: C 2204 102, instructor's permission.
- C 2204 305**
INTERMEDIATE MACROECONOMIC ANALYSIS 3.0
 The factors comprising aggregate demand and how they interact to determine the level of employment, output and the price level; the role of monetary and fiscal policy.
Prerequisites: C 2204 101, 102.
- C 2204 306**
MANAGERIAL ECONOMICS 3.0
 The application of economic theory in the decision-making processes of the firm. Utilization of economic analysis in the study of demand, costs, pricing and capital investment decisions.
Prerequisites: C 2204 101, 102, and 203.
- C 2204 307**
INTERMEDIATE MICROECONOMIC ANALYSIS 3.0
 The basic determinants of market demand. Input-output relationships in determining cost structure. Determination of prices received by resource owners in the productive process. Theory of the firm and pricing in different types of market organization with varying degrees of competitive conditions.
Prerequisites: C 2204 101, 102.
- C 2204 308**
PUBLIC FINANCE 3.0
 The impact of governmental expenditures, taxes and debt operation on resource allocation, income distribution, economic stabilization and economic growth.
Prerequisites: C 2204 101, 102.
- C 2204 310**
URBAN AND REGIONAL ECONOMICS 3.0
 The underlying economic forces operating in the urban economy. Development of the urban economic unit; relationship of the urban economy to the regional and national economy; economic activity within the urban area; and the public sector of the urban economy.
Prerequisites: C 2204 101, 102.
- C 2204 312**
BUSINESS CYCLES AND FORECASTING 3.0
 Fluctuations in economic activity which characterize modern industrial economies. Definitions, descriptions and statistical measurement of business cycles are presented along with theories describing the causes of the cycles. Practical application of forecasting techniques to predict the course of future economic and business activity.
Prerequisites: C 2204 101, 102.
- C 2204 398**
ECONOMIC INDEPENDENT STUDY 3.0
 Independent study for juniors and seniors who have developed a special interest as a result of work in a course or who wish to develop their interest through their own guided reading. A member of the economics department guides the student in this research and reading.
- C 2204 402**
INTERNATIONAL ECONOMICS 3.0
 The how, why and consequences of the movement of goods, services and factors of production in international exchange and an examination of the financial arrangements used to facilitate trade.
Prerequisites: C 2204 101, 102

C 2204 403
COMPARATIVE ECONOMIC SYSTEMS 3.0
The economic systems of planned and mixed economies with special emphasis on the Soviet Union, China, the United Kingdom, and Scandinavian countries and the United States.
Prerequisite: C 2204 100, 101 or 102.

C 2204 407
ECONOMICS OF INDUSTRIAL ORGANIZATION 3.0
The causes and effects of structure, size and concentration on competition and market prices.
Prerequisite: C 2204 102.

C 2204 414
DEVELOPMENT OF ECONOMIC THOUGHT 3.0
Broadening and improving the command of modern economic theory by examining the outstanding contributors to economic thought over the past two centuries.

C 2204 415
THE ECONOMICS OF SOCIAL PROBLEMS 3.0
The extent, causes and consequences of poverty, inequality and insecurity. An appraisal of reforms, social insurance, medical care, public housing, rural development. The economics of discrimination and educational opportunity.

C 2204 417
MATHEMATICAL ECONOMICS 3.0
Formulation of economic theory in mathematical language. Application of mathematical methods to economic theory and to the derivation of theoretical conclusions.
Prerequisite: C 2204 101, 102 or 203.

C 2204 418
ECONOMICS OF HUMAN RESOURCES 3.0
Analysis of the role of human resources in the economic process.
Prerequisites: C 2204 101, 102.

C 2204 420
ECONOMETRICS 3.0
An introduction to the techniques of applied economic (Social Science) research. Examination of the tools necessary for applied economic research and methods for dealing with certain problems inherent in economic data. The primary emphasis will be on the application of the techniques to economic data.
Prerequisites: C 2204 203, or a course in similar field.

C 2204 438
ADVANCED SEMINAR IN ECONOMICS 3.0
A seminar designed to enable economics students to develop and discuss important economic ideas with an aim to presenting these in a teaching situation.
Prerequisites: 8 semester hours in economics and instructor's permission.

C 2204 497
ECONOMICS INDEPENDENT STUDY 3.0
Open to students who wish to undertake reading and/or research in specialized areas of economics. Permission of the department chairperson must be secured.
Prerequisite: Permission of the department chairperson.

Educational Foundations

SCHOOL OF PROFESSIONAL STUDIES

Chairperson: Thunder Haas

As a society evolves, so does its educational responsibilities. The department meets these changing needs by developing innovative programs through comparative study, and philosophical and sociological theory. In this way, it also services and improves existing programs. The department offers undergraduate and graduate courses for the preparation of public school educators while meeting the specialized demands that are beyond the limits of the public schools. It also offers a Master of Arts in Teaching in Alternate and Community Education which permits qualified college graduates teaching in non-public schools to earn a secondary school teaching certificate while working towards a master's degree. Undergraduate electives are offered as well.

Courses of Instruction

3 0821 176
ITALIANS AND ITALIAN-AMERICANS: COMPARATIVE STUDIES 3.0
The course shows the relationship between the Italian and Italian-American experiences. It deals with aspects of religion, politics, language, work, and moral codes. Comparisons are made with the experiences of other ethnic groups in America. The course is taught with an interdisciplinary approach.

3 0821 220
PHILOSOPHICAL ORIENTATION TO EDUCATION 3.0
An initiation to professional educational challenges and responsibilities in light of philosophic forces related to American educational goals and practices.

3 0821 264
SEXISM IN AMERICAN EDUCATION 3.0
Designed to analyze sexism on the American schools. Emphasis on sex role stereotyping in teacher behavior, peer behavior, curriculum and textbook content.

3 0821 420
PHILOSOPHIC FOUNDATIONS IN EDUCATION 3.0
A study of philosophic forces of western civilization which have had an impact on American cultural values as they relate to professional educational goals and practices.

3 0821 440
SOCIOLOGICAL FOUNDATIONS OF EDUCATION 3.0
Teaching and learning in context of other social factors. Social and cultural influences on teachers and learners and their transactions. The relationship of culture, role and personality. The school as a changing social system.

3 0821 445
PUERTO RICAN CHILDREN IN MAINLAND SCHOOLS 3.0
 Introduction to the experiences of Puerto Rican children in mainland schools with particular attention to migration. The Puerto Rican family, Puerto Rican life-styles, cultural identity, cultural pluralism, learning needs and evolving programs. Includes visits to schools.

3 0821 447
THE EDUCATION OF HISPANIC-AMERICAN YOUTH: AN INTRODUCTION 1.0
 An introduction to the educational, cultural, social, and economic situation of Hispanic-Americans. The focus is on problems faced by Hispanic youth born in the United States.

3 0821 463
WOMEN AND EDUCATION IN MODERN WESTERN SOCIETY 3.0
 The role and education of women in particular types of societies. Attention given to the U.S., France, and Latin America. An effort is made to relate the educational situation of women to their social conditions. Attention given to the education of working class, bourgeois, and aristocratic women.

3 0821 477
ETHNIC/RACIAL GROUPS AND THE SCHOOLS IN AMERICA 3.0
 An introduction to the peopling of the United States with primary attention to immigration and the role of American schools. Special attention is given to forces, influences, movements and experiences which define the universe of the immigrant child. Ethnicity; assimilation/acculturation; interethnic relations; progressivism, the settlement houses; charity organizations; social reformers; the Americanization movement.

Educational Leadership

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Anne C. Castens

Educational leaders need solid foundations in order to meet the needs of this ever changing world. The department has four specialties programs that provide essential course work and field experience:

Administration and Supervision

Offers only graduate courses leading to the Master of Arts degree in Administration and/or Supervision and to post-Master of Arts studies. (See graduate catalog).

Educational Research and Evaluation

Trains educational research and evaluation specialists needed in various educational, governmental and industrial areas. It also broadens the professional education of students through courses designed to make them competent in educational research and evaluation.

Reading Program

The Reading program provides skills necessary to improve, develop, implement, and maintain programs in developmental, corrective, and remedial reading.
 There are two graduate programs: certification for reading specialists and a Master of Arts degree with reading specialist certification. For undergraduates, the department provides a personal reading improvement course and a Reading minor with courses that meet teacher certification requirements.

Reading Minor

The course sequence in Reading will be coordinated with the course sequence in the major program. A minimum of 24 semester hours will be required for the completion of the minor.

Required Courses

	Semester Hours
0830 400 Foundations of Reading Instruction*	3
0830 402 Survey of Reading Methods in Secondary Subjects	3
0830 403 Practicum in Reading and the Improvement of Study Skills	3
0830 404 Diagnosis and Treatment of Reading Problems	3
2001 235 Psychology of Exceptional Children and Youth (prerequisite)	3

*Prerequisite for all Reading courses.

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Note: College students may take a personal reading improvement program for optional credit as a service through the Reading and Study Skills Center. Members of the community may obtain diagnostic and treatment services for school age children and for adults. For information call the Center.

Media and Technology in Education Team

The modern library doesn't just contain printed material; it stores informational media. The Media and Technology team prepares students with a sound, up-to-date group of courses that lead to New Jersey state certification on the graduate level as an Associate Media Specialist or as an Educational Media Specialist.

Associate Media Certificate

Requirements

Satisfactory completion of a degree program.
 New Jersey Teaching Certificate
Courses:

	Semester Hours
0840 355 Media for Inter-cultural Communications	3
0840 400 Media for Trainers and Educators	3
0840 401 Fundamentals of Cataloging and Classifying Educational Resources	3
0840 402 Reference and Bibliography for School Resource Centers	3
0840 403 Reading Materials for Children and Youth	4
0840 404 Organization and Administration of a School Media Center	3
0840 420 Teaching Materials Workshop	3
0840 445 Audio Technology in Education	3

Electives (Departmental)

Select courses from the appropriate list to be obtained from the department.

Field Experience

Fifty hours of supervised experience in a professional center usually connected with student teaching. This may be waived; see team leader for information.

Courses of Instruction

4 0824 410

ASSESSMENT OF YOUNG CHILDREN-EVALUATION OF COGNITIVE PROGRESS

3.0

Principles and practices of assessing young children. Various individual and group, formal and informal evaluative instruments and techniques will be reviewed. Use of tests in understanding children's developmental patterns, in the diagnosis of learning difficulties, in the determination of readiness, and in the evaluation of remedial and other special programs will be studied. Course content and requirements will be geared to individual needs of students.

4 0824 491

EDUCATIONAL TESTS AND MEASUREMENTS

3.0

Educational goal setting, evaluation and improving instruction. Identifying and translating goals into behavioral objectives; constructing tests; standardized tests and other devices for measuring and evaluating achievement, intelligence, aptitudes and personal social relationship; basic statistical measures; organizing and interpreting test data; marking and reporting pupil progress. Each student will construct a test in his/her field of interest. Immediate applicability to thorough and efficient program.

4 0830 053

BASIC READING SKILLS

3.0

An intensive laboratory course for students who must fulfill their minimum basic skills requirement in reading. Non-additive credit.

Prerequisite: New Jersey College Basic Skills Placement Test.

4 0830 102

COLLEGE READING AND STUDY SKILLS IMPROVEMENT

2.0

Workshop for college students whose reading-study problems interfere with school progress. Supervised practice promotes vocabulary growth, flexible speeds, comprehension and recall, skimming, interpretative and critical techniques. Reviewing for examinations, keeping up daily assignments, taking notes and organizing content are also covered. Students may volunteer or be recommended by a faculty member.

4 0830 105

READING: COMMUNICATING THROUGH TEXT

3.0

This course, designed for the general student, will foster a critical understanding of the processes involved in efficient and effective reading. Emphasis will be placed on developing students' life-long reading habits in relation to comprehension, aesthetic sensibilities and analytical skills. GER Communications requirement.

4 0830 300

SPEED READING FOR ACADEMIC AND PROFESSIONAL DEVELOPMENT

3.0

An intensive speed reading course for students who must contend with a myriad of reading materials in their college courses as well as future occupations. Students will practice strategies for dealing efficiently with a variety of printed materials such as journals, technical reports, office memoranda, textbooks and newspapers. Content will include the mechanics of speed reading, reading flexibility, establishing purpose, surveying, skimming, scanning and phrasing. Students will learn how to evaluate their improvement and how to maintain their speed reading skills.

4 0830 301

TUTORING AND SMALL GROUP INSTRUCTION

2.0-4.0

Designed to provide tutors, teacher aides and other differentiated personnel with the necessary background of knowledge, skills and understanding to enable them to serve in educational environments in schools, hospitals, prisons, neighborhood youth corps, community action programs, etc. Students enrolled in this course will learn how they can increase the academic performance of the learner; how they can supplement rather than subvert what the instructor in the formal educational environment will do. (Open to undergraduates, volunteers, and personnel from community action programs.)

Prerequisite: This course may be taken as an elective or as part of the Reading minor.

4 0830 302

REMEDIAL READING TECHNIQUES

2.0

Designed to provide instructional personnel with specific techniques for assisting students experiencing reading problems.

4 0830 400

FOUNDATIONS OF READING INSTRUCTION

3.0

Good first teaching of reading is of primary importance. The sequential development of reading skills extend into the junior and senior high school. Methods and materials currently in use in elementary reading programs are studied with a view toward increasing the power of both the teacher and the learner. How the reading process begins, and how it is reinforced are topics fundamental to all upper grade teachers faced with the problem of continuing reading skills development in all curriculum areas. Tutoring experience in nearby elementary schools is required.

4 0830 402

SURVEY OF READING METHODS IN SECONDARY SUBJECTS

3.0

The following are explored: the role of good reading for academic and personal success; the physiological, psychological and sociological factors in reading; resources available; the school's responsibility to help the student build reading skills; reading opportunities in the entire curriculum.

4 0830 403

PRACTICUM IN READING AND THE IMPROVEMENT OF STUDY SKILLS

3.0

The following areas are explored: recent materials and research; developing practical methods for teaching and learning; the SQ3R approach; taking examinations; reading and problem-solving; memory and concentration; taking and organizing reading notes; and the reading of homework assignments. Students tutor collegians in these areas.

4 0830 404

DIAGNOSIS AND TREATMENT OF READING PROBLEMS

3.0

Problems of the handicapped; recent materials and research; evaluative and corrective techniques; diagnostic treatment and methodology are covered. An on-going student diagnosis of the school-age child is required.

4 0830 407

DEVELOPMENTAL READING PRINCIPLES AND TECHNIQUES I

3.0

Designed for classroom and non-classroom personnel whose major responsibility is instructing students. Major focus will be on developing those skills, understandings and competencies in the nature of the reading process, in specific word recognition and comprehension strategies, and in classroom diagnostic techniques.

Prerequisite: Junior/senior standing.

4 0830 408

DEVELOPMENTAL READING PRINCIPLES AND TECHNIQUES II

3.0

Designed to enable content area teachers to understand the developmental nature of the reading process and employ specific techniques to facilitate and improve reading competencies.

Prerequisite: 4 0830 407.

40840 355
MEDIA IN INTER-CULTURAL COMMUNICATION 3.0
 Offer to satisfy the need for skill in the practical use of media for effective communication in inter-cultural situations. Ethnic, social, and commercial factors affecting accuracy and meaning receive major attention. Training in equipment technology provided. Meets GER requirement: Contemporary Issues.

40840 400
MEDIA FOR TRAINERS AND EDUCATORS 3.0
 Develops competency with educational media in classroom presentations. Production of simple teacher-made materials; selection and utilization of materials and equipment; and proficiency in basic media technology and evaluation.

40840 401
FUNDAMENTALS OF CATALOGING AND CLASSIFYING EDUCATIONAL RESOURCES 3.0
 Covers principles involved in cataloging and classification of print and non-print materials according to established classification schemes. Extensive practice through laboratory experience provided.

40840 402
REFERENCE AND BIBLIOGRAPHY FOR SCHOOL RESOURCE CENTERS 3.0
 An examination and analysis of basic reference materials with emphasis on those most useful in library resource centers. Encyclopedia, dictionaries, geographical and statistical sources as well as bibliographies are included.

40840 403
READING MATERIALS FOR CHILDREN AND YOUTH (SELECTION AND EVALUATION) 4.0
 A study and evaluation of library materials provided by the modern school media center to meet the needs of youth. Extensive critical reading of books for children and young adults is required. Principles of book selection are emphasized, and experience in the use of selection tools is provided. The point of view relates the library collection to the total school program.

40840 404
ORGANIZATION AND ADMINISTRATION OF A SCHOOL MEDIA CENTER 3.0
 Practical experience in setting up effective library routines is stressed. These routines include budgeting, locating sources for materials, purchasing materials, book processing, preparing reports and statistics, taking inventory, planning and adapting rooms and equipment, and evaluating collections and services.

40840 420
TEACHING MATERIALS WORKSHOP 3.0
 Initial problems in creation of media resources. Simple design experiences in development of materials production. Individually oriented to projects and subject areas of each student. Strong emphasis on budget conscious improvisation for classroom teachers.



English

SCHOOL OF HUMANITIES AND
 SOCIAL SCIENCES
Chairperson: Thomas E. Benediktsson

There are two important aspects in the study of language. One is learning communication skills through writing, reading, grammar, and studying the roots of the language. The other is understanding the culture through its literature. The English major is designed to help a person acquire this knowledge.

Those interested can major or minor in English, minor in journalism or obtain a teaching certificate. There is also a special program designed to give students with strong writing and analytical skills career-oriented opportunities through the Cooperative Education program.

A Bachelor of Arts degree is awarded in the English major.

English Major

Required Courses

	Semester Hours
Genre (select one)	
1501 160 Art of Poetry	3
1501 162 Art of Fiction	3
1501 163 Art of Drama	3
Language and Rhetoric* (1 course)	3
American Literature* (2 courses each from a different period)	6
British Literature* (3 courses each from a different period)	9
Comparative Literature* (1 course)	3
*Check with department for appropriate courses	

English Minor

Required Courses

	Semester Hours
Genre, Language and Rhetoric,	
Comparative Literature (2 courses)	6
American Literature (2 courses)	6
British Literature (2 courses)	6

Journalism Minor

Required Courses

1507 114 Newswriting	3
1507 216 History of Journalism in America	3
1507 313 Editing	3

Electives (Three of the following)

1507 214 Feature Writing	3
1507 314 Advanced Editing	3
1507 315 Magazine Journalism	3
1507 316 Reporting of Public Affairs	3
1507 416 Interpretive Journalism	3

Special Programs

English Cooperative Education

The English Cooperative Education program places students with strong writing and analytical skills in supervised employment outside the classroom. The co-op term is a semester during which the student advised by a faculty coordinator and the Cooperative Education office completes the terms of a learning contract.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined by the department of Curriculum and Teaching in this catalog. Prerequisites for admission to the Teacher Preparation program in English and current requirements in the discipline for both a first and a second teaching field certificate can be obtained in the English department.

Courses of Instruction

M 1501 100
BASIC COMPOSITION 3.0
Instruction in basic writing skills and research, frequent writing assignments. In addition to regular class meetings, students may be required to attend tutorial sessions over as long a period of time as necessary to raise students' skills to college standards. Placement based on scores in New Jersey College Basic Skills Placement Test. For those placed, this course is prerequisite to M 1501 105.

M 1501 105
FRESHMAN COMPOSITION 3.0
Writing skills and research techniques with frequent writing assignments and a research paper. Satisfies the communications requirement in writing. This course and 1501 106 are prerequisites for all other English courses.

M 1501 106
INTRODUCTION TO LITERATURE 3.0
All forms of literature selected from different periods and cultures. Satisfies the communications requirement in reading. This course and 1501 105 are prerequisites for all other English courses.
Prerequisite: M 1501 105 or equivalent course.

M 1501 139
SOCIAL PROTEST LITERATURE IN AMERICA 3.0
Novels, dramas and poetry of protest against social injustices in the United States since World War I.

M 1501 160
ART OF POETRY 3.0
An introductory course in reading, interpreting, and evaluating poetry. Attention is paid to style, form, and poetic convention.

M 1501 161
SHORT STORY 3.0
An introduction to the short story as an evolving form. 19th and 20th century stories will be studied with attention to literary and human values.

M 1501 162
ART OF FICTION 3.0
An introduction to form and techniques in fiction through close reading and discussion of representative texts.

M 1501 163
ART OF DRAMA 3.0
An introduction to dramatic literature and the ways in which man expresses himself and his community through drama as a blend of word and gesture.

M 1501 225
EARLY AMERICAN LITERATURE 3.0
American literature from the Puritans to 1800, tracing the development of colonial and revolutionary thought and the beginning of America's cultural independence.

M 1501 226
LITERATURE OF THE AMERICAN RENAISSANCE 3.0
Moby Dick and *The Scarlet Letter* among other major works by masters of the American Romantic period—Emerson, Thoreau, Hawthorne, Melville, Whitman and Poe are examined.

M 1501 238
AFRO-AMERICAN WRITERS 3.0
Major Afro-American writers from colonial times to the present.

M 1501 240
ENGLISH LITERATURE I: BEGINNINGS TO 1660 3.0
English literature from its beginnings to 1660 examined through representative works of major and minor authors.

M 1501 241
ENGLISH LITERATURE II: 1660 TO PRESENT 3.0
English literature from the restoration to the present. May be taken independently of English Literature I.

M 1501 244
CHAUCER 3.0
Troilus and Criseyde, *The Canterbury Tales*, and some of the minor poems in middle English. No previous language training required.

M 1501 245
MIDDLE ENGLISH LITERATURE 3.0
The literature of England from 1100 to 1400 in its historical and social contexts and in relation to continental literature. Where appropriate, works read in Middle English.

M 1501 246
RENAISSANCE LITERATURE 3.0
Major poets and prose writers of 16th and early 17th century England such as Sydney, Lyly, Nashe, Greene, Donne and Browne, whose individual contributions in poetry and prose reflect the literary and philosophical preoccupations of the period.

M 1501 247
THE AUGUSTAN AGE 3.0
Important works of English literature 1600-1745, including poetry, criticism, essays, fiction, and drama, examined within the literary, cultural, social and intellectual contexts of the age.

M 1501 248
SENSIBILITY TO ROMANTICISM 3.0
Important works of English literature—poetry, criticism, philosophical prose, fiction and drama—examined within the literary, social, cultural and intellectual contexts of the period 1745-1800.

M 1501 254
ENGLISH DRAMA-BEGINNINGS TO 1642 3.0
English drama from its medieval origins to the closing of the theaters in 1642; from miracles, mysteries and moralities through the development of Tudor and Stuart Drama. Shakespeare excluded.

- M 1501 294**
WOMEN POETS 3.0
 Selected poets from Sappho through Emily Dickinson to Sylvia Plath examined in relation to contemporary women poets.
Prerequisite: M 1501 160.
- M 1501 324**
AMERICAN POETRY TO 1940 3.0
 American poetry from Poe to Langston Hughes with an emphasis on what makes the American voice unique.
- M 1501 325**
AMERICAN POETRY: WORLD WAR II TO PRESENT 3.0
 American poetry beginning with William Carlos Williams and continuing to the present with an emphasis on new attitudes, techniques and contributions to American culture.
- M 1501 334**
AMERICAN DRAMA 3.0
 American drama chosen for excellence or representative of a significant era or movement in the theatre from the early 18th century imitative works through melodrama to the serious works of the 20th century. Centered on major American playwrights and their work. The course also examines the backgrounds of our modern stage-including readings in minor/historical works.
- M 1501 336**
AMERICAN LITERARY REALISM 3.0
 The works of James, Howells, Twain, Crane, Norris, Dreiser and others are examined in light of the developing literary concepts of realism, naturalism and social Darwinism in the changing cultural period between 1860 and 1900.
- M 1501 337**
MODERN AMERICAN FICTION 3.0
 American fiction from 1918 to 1945 with attention to the works, criticism and lives of such authors as Hemingway, Faulkner and Fitzgerald.
- M 1501 338**
CONTEMPORARY AMERICAN FICTION 3.0
 Developments in American fiction since the 1940's with attention to such authors as Mailer, Roth, Nabokov, and Vonnegut.
- M 1501 343**
MILTON 3.0
 An introduction to the mind and art of Milton. Intensive study of one major work, and selections representative of the full range of his achievement.
- M 1501 346**
19TH CENTURY ENGLISH ROMANTIC LITERATURE 3.0
 The revolutionary expression of such poets and essayists as Wordsworth, Coleridge, Shelley, Byron, Keats, Hazlitt, Dequincy and Lamb.
- M 1501 347**
VICTORIAN PROSE AND POETRY 3.0
 Mid and late 19th century responses to the emergence of modern British society demonstrated in the works of Carlyle, Mill, Ruskin, Huxley, Newman, Arnold, Morris, Tennyson and Browning.
- M 1501 353**
SHAKESPEARE: COMEDIES-HISTORIES 3.0
 Representative comedies and histories: their sources, devices and characteristics; their staging in the context of Elizabethan society; and Shakespeare's vision of man as actor.
- M 1501 354**
SHAKESPEARE: TRAGEDIES-ROMANCES 3.0
 Representative tragedies and romances: their sources, devices and characteristics; their staging in the context of Elizabethan society; and Shakespeare's view of man in the tragic mode and in the later romances.
- M 1501 356**
ENGLISH NOVEL TO 1900 3.0
 Form and theme of the English novel through the 18th and 19th centuries, evaluated by literary, social, moral and cultural criteria.
- M 1501 364**
CONTEMPORARY POETRY 3.0
 Distinctive movements in poetry since the Imagists, comparing the diverse styles, themes and poetic theories of representative poets of English-speaking countries.
- M 1501 370**
ENGLISH INDEPENDENT STUDY I 3.0
 A scholarly interest beyond the scope of a presently offered course pursued, under the direction of a specialist in that field of interest.
Prerequisite: Junior or senior standing with prior permission of the specialist and the English department.
- M 1501 371**
ENGLISH INDEPENDENT STUDY II 3.0
 A second scholarly interest beyond the scope of a presently offered course pursued under the direction of a specialist in that field of interest or a study begun in 1501 370 that continues for a second term.
Prerequisite: Successful completion of M 1501 370 and prior permission of the specialist and the English department.
- M 1501 401**
OLD ENGLISH LANGUAGE AND LITERATURE 3.0
 Selected prose and poetry representative of the heroic, elegiac, religious and popular traditions of pre-conquest England, with recitation and reading in the original old English. No previous language training required.
- M 1501 427**
FILM COMEDY 3.0
 Film comedies from all periods in relation to comic theory and its application with particular emphasis on American films of the 20's and 30's.
- M 1501 429**
FILM OF HOLLYWOOD STUDIO YEARS 3.0
 The period from 1930 to 1959 in filmmaking—the years of the rise and decline of the Hollywood studio and the American film at the height of its influence and importance. Social, political, artistic and economic factors that affected the American film will be considered and discussed.
- M 1501 430**
THE AMERICAN FILM 3.0
 The evolution of the American film from its beginnings to the present with special attention given to those genres in which American films are distinctive or of particular excellence.
- M 1501 444**
17TH CENTURY ENGLISH POETRY 3.0
 The schools of Donne and Johnson and the works of Marvell and Dryden. Milton excluded.
- M 1501 446**
IRISH RENAISSANCE PERIOD LITERATURE 3.0
 Irish romanticism, naturalism, symbolism and realism in the works of Joyce, Shaw, Yeats and others from the late 1890's to the 1930's.
- M 1501 455**
RESTORATION AND 18TH CENTURY DRAMA 3.0
 Major innovation of dramatic form and conventions in the period from 1660 to 1715 on the English stage, in the works of Etherege, Wycherley, Congreve, Vanbrugh and Dryden.
- M 1501 456**
20TH CENTURY ENGLISH NOVEL 3.0
 The literary and cultural context and the stylistic and structural changes in representative British novels of the 20th century.

- M 1501 471**
TEACHING ENGLISH (SECONDARY) 3.0
 Communicating both the discipline and the human dimensions of English as a subject in the classroom. A course in the professional sequence not credited to the English major requirements.
Prerequisites: Concurrent or completed preliminary field experience 0829-0410 and permission of the English teacher education coordinator.
- M 1501 493**
SEMINAR IN AMERICAN LITERATURE 3.0
 The works of one major American author in depth or of a group of authors whose works are related by theme, artistic form or cultural period. Enrollment limited.
Prerequisite: Junior or senior English majors or instructor's permission.
- M 1501 494**
SEMINAR IN ENGLISH LITERATURE 3.0
 The works of one major English author in depth or of a group of English authors whose works are related by theme, artistic form, or cultural period. Enrollment limited.
Prerequisite: Junior or senior English majors or instructor's permission.
- M 1503 172**
WESTERN WORLD LITERATURE 3.0
 Literary masterpieces that reflect the major cultural transitions that have shaped western world history, thought and tradition.
- M 1503 173**
EASTERN WORLD LITERATURE 3.0
 Literature from the Orient and Near East, from the classical to the contemporary period.
- M 1503 174**
WORLD LITERATURE FROM EARLIEST TIMES TO 1600 3.0
 Course is designed to show the range of uses to which literature was put in the earlier stages of human history (worship, satire, entertainment, spiritual exploration). Introduces students to a selection of major works of world literature in an historical and cultural context.
- M 1503 175**
WORLD LITERATURE FROM 1600 TO THE PRESENT DAY 3.0
 Course is designed to illustrate important literary movements and to show contrasting modes in different literatures. Presents works from European, Asian, African, and American literatures.
- M 1503 176**
THE JOURNEY AS PHYSICAL AND SPIRITUAL QUEST 3.0
 Three types of journeys provide the focus for this cross-cultural course: physical, to unexplored and distant worlds (including other planets); spiritual and transpersonal, to transcendent zones of experience; psychic, to unexplored realms of the inner self.
- M 1503 177**
VOICES OF TRADITION AND VOICES OF CHALLENGE 3.0
 Organized around the premise that writers have two fundamental ways of responding to the challenge of their culture, conformity or dissent, this course will present literary works in pairs that represent opposing ways of responding to the same subject.
- M 1503 260**
MYTH AND LITERATURE 3.0
 Myth and the myth-making process: the origins, meanings and major archetypes and motifs of occidental and oriental myths.
- M 1503 266**
AFRICAN MYTH AND LITERATURE 3.0
 The nature of the sub-Saharan experience and vision through African myths and literary works within the context of culture, criticism and theory.
- M 1503 273**
LITERARY MODERNISM 3.0
 The intellectual concepts of Futurism, Dada, Surrealism and Expressionism in the early 20th century, which continue to influence literature and art.
- M 1503 274**
MODERN DRAMA: IBSEN TO O'NEILL 3.0
 Major modern plays and the playwrights whose critical insights and historical perspective led to their unique contributions.
- M 1503 278**
SPECULATIVE FICTION FANTASY 3.0
 The impossible and improbable in fairy tales, myth, legend, horror, sword and sorcery, the supernatural and high fantasy as a critical mode. Technological science fiction excluded.
- M 1503 372**
MAJOR WOMEN PROSE WRITERS 3.0
 Significant relationships among the writings of not more than five women such as Mme. Destael, Mary McCarthy or Susan Sontag.
- M 1503 374**
CONTEMPORARY EUROPEAN DRAMA 3.0
 Plays representing the themes, values and dramatic techniques of selected British and Continental (French, German, Italian, Russian and/or other) dramatists.
- M 1503 376**
MODERN EUROPEAN NOVEL 3.0
 The creative expression of such novelists as Gide, Hesse, Kafka, Proust and Wolfe as shaped by events of the period 1910 to 1930, and how these works influenced the future of the novel.
- M 1503 378**
SCIENCE FICTION 3.0
 Fiction of the future that speculates and extrapolates from the physical and social sciences, selected from both the classics and contemporary writings.
- M 1503 381**
COMIC AND SATIRIC TRADITION 3.0
 Comic and satiric devices compared and exemplified historically from Aristotle's time to the present.
- M 1503 463**
HISTORY OF CRITICISM 3.0
 The modes of critical thought expressed by major figures in the Classical era, their imitators and interpreters in the Renaissance and Neo-classical period, the innovators among the Romantics, and by critics of the 20th century.
- M 1503 464**
MODERN POETRY TO T. S. ELIOT 3.0
 Works of the French symbolists and the Georgian and Imagist poets of Britain, the Continent and America whose theories and principles underlie modern poetics.
- M 1503 465**
MAJOR FILM FIGURES 3.0
 Focusing on the life and work of influential filmmakers, the course addresses such issues as auteur criticism, the nature of successful collaboration: (scriptwriting teams, director/cinematographer), and performance theory

- M 1503 466**
WORLD FILM 3.0
Films from the major film producing countries including the United States, France, Germany, Italy, Sweden, Russia, England, India and Japan. Within that framework, special topics will be defined: a specific period, a particular theme or problem, comparison/contrast of several national cinemas.
- M 1503 467**
MAJOR FILM GENRES 3.0
Examples from the major film genres, such as the western, the crime film, the musical, the horror film, and *Film Noir*, with special emphasis on American film and principles of genre criticism.
Prerequisite: Junior standing.
- M 1503 468**
THE SILENT FILM 3.0
The finest examples of silent screen from earliest American and French efforts and from those countries whose films reached their greatest artistic height during the silent era to the coming of the talking film.
- M 1503 469**
DRAMA ON FILM 3.0
Major film versions of European and American plays are studied both as adaptations and as independent works of art. The films are compared to the original texts to explore modifications for the screen, the values of the films as productions/interpretations of the plays, and ultimately the nature of theatre as opposed to film.
- M 1503 470**
THE CONTEMPORARY FILM 3.0
Beginning with American *Film Noir* and European films which emerged after World War II, the course traces the major films, directors, critical theories, and other influences which make up the contemporary film and define a specifically modernist sensibility.
- M 1503 492**
SEMINAR IN COMPARATIVE LITERATURE 3.0
A culture, era, theme or literary approach studied through international literary masterpieces. Enrollment limited.
Prerequisite: Junior or senior standing English majors or instructor's permission.
- M 1505 384**
THE GRAMMARS OF ENGLISH 3.0
Traditional English grammar, new theories of grammar and the application of grammar to teaching or to utilizing its principles in rhetoric and composition.
Prerequisite: M 1505 284.
- M 1507 114**
NEWSWRITING 3.0
Writing news articles according to contemporary practices. Interviewing techniques are explored as well as a respect for facts, impartiality, and fairness.
Prerequisite: Instructor's permission.
- M 1507 198**
CREATIVE WRITING 3.0
Writing as a creative process with explorations in poetry, drama, fiction, and autobiography.
- M 1507 205**
WRITING: NONFICTION PROSE 3.0
Advanced writing skills with stress on developing a personal writing style, adapting writing style to various subjects and audiences, and experimenting with different modes of exposition.
Prerequisites: M 1501 105, instructor's permission.
- M 1507 206**
BUSINESS WRITING 3.0
Writing skills essential to the world of work with emphasis on correspondence, analytical reports, and proposals.
- M 1507 207**
TECHNICAL WRITING 3.0
Writing skills essential in technology, science and industry with emphasis on mechanism and process description, analysis of data, recommendation proposals and formal reports.
- M 1507 214**
FEATURE WRITING 3.0
All aspects of writing personality profiles and of writing critical reviews, columns and/or sports features.
- M 1507 216**
HISTORY OF JOURNALISM IN AMERICA 3.0
Evolution of the American press is examined through research and discussion of significant periods, individuals and issues from 1600 to the present.
- M 1507 301**
COOPERATIVE EDUCATION (ENGLISH) 8.0
An outside the classroom English supervised employment experience related to academic study. Not included in major requirements.
Prerequisites: Permission of English faculty coordinator and the office of cooperative education.
- M 1507 310**
WRITING: DRAMA 3.0
Writing and evaluating dramatic dialogue with consideration of the problems of form, characterization, and action. Usually students will complete a one-act play.
Prerequisite: M 1507 198.
- M 1507 311**
WRITING: FICTION 3.0
Fundamentals and techniques of writing prose fiction (stories and/or novels), with evaluations in class and extensive individual conferences.
Prerequisite: M 1507 198.
- M 1507 312**
WRITING: POETRY 3.0
Writing, reading, and class and professorial evaluations.
Prerequisite: M 1507 198.
- M 1507 313**
EDITING 3.0
Copy editing, proofreading and basic editorial skills. Articles are analyzed for accuracy, libel, precise diction and tightening.
Prerequisites: M 1507 114, or 214, instructor's permission.
- M 1507 314**
ADVANCED EDITING 3.0
Techniques learned in editing are reinforced. Layout, headlines, and production are explored. Rewriting and fitting articles are worked on extensively.
Prerequisite: M 1507 313.
- M 1507 315**
MAGAZINE JOURNALISM 3.0
Researching, writing, and placement of feature stories in mass circulation magazines.

M 1507 316	REPORTING OF PUBLIC AFFAIRS	3.0
News articles on the activities of government at the local level, including writing reports on the proceedings of civil and criminal court and city/county executive councils.		
<i>Prerequisites: M 1507 114, 214, 313, or instructor's permission.</i>		
M 1507 407	ADVANCED LITERARY ANALYSIS	3.0
Writing of interpretive essays; applying traditional and contemporary critical approaches to selected works. Responding to them in scholarly writing.		
M 1507 411	ADVANCED WRITING: FICTION	3.0
Writing of prose with intensive class analyses and individual conferences.		
<i>Prerequisite: M 1507 215 or instructor's permission.</i>		
M 1507 412	ADVANCED WRITING: POETRY	3.0
Writing of poetry with intensive class analyses and individual conferences.		
<i>Prerequisite: M 1507 212 or instructor's permission.</i>		
M 1507 416	INTERPRETIVE JOURNALISM	3.0
Studying and writing columns, editorials, and news articles. Students will compare different styles of interpretive reporting and develop their own skills in this area.		
<i>Prerequisite: M 1507 114 or equivalent course.</i>		
M 1507 491	SEMINAR IN WRITING	3.0
Creative writing, expository writing, or theories of the teaching of composition for the advanced student. Enrollment limited.		
<i>Prerequisites: Junior or senior English majors and/or permission of instructor.</i>		
K 4903 196	INTRODUCTION TO THE FILM	3.0
The history and aesthetics of film from its beginning to the present, with special attention to the evolution of technique, influential art movements and national cinemas, pivotal directors, and films.		
K 4903 198	THE BUTLER DIDN'T DO IT	3.0
A consideration of 20th century American detective novels and short stories. Focus on structure of detective novel, the intellectual detective, the physical detective, the culture as it is reflected in this popular genre, and the tremendous appeal of this genre for the reading public.		
K 4903 296	THE CONTEMPORARY FILM	3.0
American and foreign films of outstanding merit: plot, theme, aesthetic standards, social attitudes and the personal statement of such directors as Bergman, Fellini, Antonioni.		
K 4903 297	LITERATURE AND SOCIOLOGY	3.0
Through a study of certain works of recent American literature and of sociology, the course examines the impact of sociological ideas on literary culture, and the relationship between the world of fictional works and the "real world" as revealed through sociological examination.		
K 4903 298	LITERATURE AND PSYCHOLOGY	3.0
Major modern depth psychologies—Freudian, Jungian, Adlerian—in their worldwide literary portrayal of human character and action through investigating such issues as the alienated individual, love and marriage, parents and children, and the quest for selfhood.		

K 4903 299	LITERATURE AND ART IN THE WESTERN WORLD	3.0
The relation between art and literature will be explored in representative classical, romantic, and realistic works.		

K 4903 397	BIOGRAPHY	3.0
Sources of biography in letters, diaries, memoirs. A study of biographies from medieval England to contemporary times with an emphasis on changing concepts of form and on revelations of the nature of character.		

K 4903 398	AUTOBIOGRAPHY	3.0
Autobiographical readings, especially in letters, diaries, and journals, from ancient times to the present. Emphasis on the aesthetics of autobiography, autobiography as the mirror of an age, and autobiography as a model of the examined life.		

Environmental, Urban and Geographic Studies

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Bertrand P. Boucher

Environmental studies tries to develop a systematic understanding of the environmental factors related to life. Physical factors (water, air, land) and societal, technological and behavioral factors. Their impact on life and their relationship to each other are the bases of courses in the program.

Graduates in this department may continue the work in graduate school or find mid-management positions as environmental planners in both the public and private sector. The program is also a good background for diverse careers in nature centers or even publishing.

The key issues of the contemporary world are urban issues, and the department focuses on these in the urban studies major. It prepares students with the technical skills to fully comprehend the consequences of modern urban growth and development. An important feature of this program is the full semester off-campus internship which enables students to work in public or private agencies as planners.

Geography is the study of all natural and cultural elements found on the surface of the earth. In order to understand and study spatial relationships, the department attempts to foster the integration of natural, physical and social sciences. The major achieves broad scholarship and is designed for varied career plans.

Geography—Urban Studies Major

Required Courses

	Semester	Hour
2206 100	Principles of Geography or
2206 101	Cultural Geography
2206 206	Introduction to American Urban Studies

2206 309	Research Methods in Geography and Urban Studies or	
2206 310	Quantitative Methods in Geography and Urban Studies	3

Electives (Departmental)

Select 24 semester hours from the appropriate list to be obtained from the department 24

Urban Studies Minor

Required Courses

2206 206	Introduction to American Urban Studies	3
2206 462	People and Cities: Comparative Urban Studies	3
2206 463	Internship in Urban Studies	12
2206 464	Senior Seminar in Urban Studies (Urban Studies Internship)	3

Interdisciplinary Programs

The Environmental, Urban and Geographic Studies department participates in the interdisciplinary Bachelor of Arts degree program transcultural studies, which includes major concentrations in Asian studies and Latin American studies. It is possible to design a career program in a number of professional fields. Contact the department for further information.

Courses of Instruction

N 2206 100	PRINCIPLES OF GEOGRAPHY	3.0
The spatial distribution and significance of important geographic phenomena, such as atmospheric pressure and wind systems, climatic types, water bodies, landforms, soil types, natural resources and population distribution mapping techniques and map interpretation.		
N 2206 101	CULTURAL GEOGRAPHY	3.0
Concepts of cultural geography including culture hearths, diffusion processes and environmental perception. Emphasizes socio-cultural diversity of mankind and the spatial aspects of race, language, religion and ethnic groupings as categories of thought patterns and institutions that unite or separate human groups.		
N 2206 102	WORLD GEOGRAPHY	3.0
The study of place on a global scale and by major region. Variations in the natural environment, in man's use of the land, in population distributions, and in importance of regions.		
N 2206 109	THE HUMAN ENVIRONMENT	3.0
An interdisciplinary course which examines man's relationship to his natural environment, his reliance on it, his view on it, and his changes in it, and future human and environmental projections. Also listed under Psychology as T 2001 109.		

N 2206 201	CLIMATOLOGY	3.0
Basic climate elements examined in terms of their influence on habitats and various aspects of human activities. The energy flux between atmosphere and biosphere affords a fundamental understanding of limitations in ecosystems development. Knowledge of climatic influences on health, clothing, human comfort, architecture, commerce and industry encourages the student to investigate new ways of living rationally within a climate environment.		
N 2206 203	OUR FINITE EARTH: POPULATION AND RESOURCES	3.0
Implications of the population explosion and the rising rate of resources consumption. Focuses on the alternate ways various societies can achieve equilibrium between population and economic development, within the framework of limited world resources.		
N 2206 204	PRINCIPLES OF LAND USE	3.0
Geographical analysis of rural and urban land use patterns in the United States. Field work stresses mapping techniques and socio-economic aspects of urban land use in the New York-New Jersey metropolitan area.		
N 2206 205	NOISE POLLUTION: CONTEMPORARY PROBLEMS AND ISSUES	3.0
Noise, noise pollution, the psycho-physical effects of noise, noise control and hearing conservation.		
N 2206 206	INTRODUCTION TO AMERICAN URBAN STUDIES	3.0
An interdisciplinary introduction to the development of American cities, with an emphasis on current patterns of urbanism and urbanization. The growth and evolution of urban structures, emerging urban and suburban cultural styles, and radical and reform responses to critical urban issues will be explored.		
N 2206 209	AMERICAN CITYSCAPE: URBAN FORM AND ARCHITECTURE	3.0
The evolution of American urban form and architecture from the colonial town to the contemporary metropolitan region; city plans and the emergence of professional planning; architect and the urban environment; cultural values; and changing urban forms and new town design.		
N 2206 234	TRANSPORTATION	3.0
Transportation is the study of spatial interaction of economic factors and societal functioning. Transportation flows are analyzed in the context of technological change, degree of accessibility, different transport cost surfaces, and transportation as it relates to land use planning.		
N 2206 252	HYDROLOGY	3.0
Water: its availability, distribution and usefulness. Hydrologic cycle examined in detail. Interaction with man and his usage. Applications to models and systematic processes. Also listed under Physics and Geoscience as Z 1914 252.		
N 2206 300	WORLD RESOURCES AND INDUSTRIES	3.0
Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population-resource ratios. Examines world trend in production controls and market allocations. Also listed under Economics as C 2204 300.		

- N 2206 308
LAND AND LIFE IN LATIN AMERICA 3.0
Human use of local resources and the changes in the spatial arrangement of social and economic systems affected by resource modification.
- N 2206 309
RESEARCH METHODS IN GEOGRAPHY AND URBAN STUDIES 3.0
Primary and secondary source material in geographic and urban research. The use of maps, graphs, diagrams, charts, aerial photographs, slides and other graphic material.
- N 2206 310
QUANTITATIVE METHODS IN GEOGRAPHY AND URBAN STUDIES 3.0
Treatment of measurements and design in geography. Definition of problems, hypotheses formulation and tests of hypotheses by alternative methods of measurement. Geographic applications of computer methods, multi-variate analysis, systems analysis, data bank maintenance and evaluation.
- N 2206 312
HISTORICAL GEOGRAPHY OF THE UNITED STATES 3.0
The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800; the rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1800. Also listed under History as P 2205 312.
- N 2206 313
URBAN GEOGRAPHY 3.0
Spatial aspects of urban demography, post-World War II migration of the minorities to American urban centers and its impact on residential, commercial and industrial land use; the evolving pattern of population distribution in metropolitan areas with its resultant social and political problems. Non-majors only.
- N 2206 317
MANAGING THE URBAN ENVIRONMENT 3.0
An advanced interdisciplinary investigation of the modern city and its suburbs, emphasizing the impact of selected social, political and economic issues.
- N 2206 331
URBANIZATION AND ENVIRONMENT 3.0
Examines interaction between man and the physical urban environment. Studies dynamic and physical processes as related to air, water and noise pollution, and hydrologic and geologic hazards.
- N 2206 352
FLUVIAL GEOGRAPHY 3.0
Detailed study of streams and rivers, emphasizing processes causing variations of size and shape; the morphology of streams; and stream channel processes, quantitative techniques. Also listed under Physics and Geoscience as Z 1914 352.
- N 2206 403
MAN'S IMPACT ON THE COASTAL ZONE 4.0
A study of man's economic, political, legal and social impacts on the physical and biological aspects of the coastal zone. Primarily a field course with supporting lectures and discussion.
Prerequisite: Advanced standing in one of the social sciences or permission of instructor.
- N 2206 404
GEO-ECOLOGY 3.0
Spatial relations of the living environment. A systems approach to functional processes, characteristics and relationships of the ecological elements, i.e., soil, water, air, vegetation, etc. Both natural succession and man-induced changes including pollution, within the ecosystem.
- N 2206 408
POLITICAL GEOGRAPHY 3.0
Main theories of the field and their application to selected political entities, current problem zones and the spatial interaction of nations.
- N 2206 409
URBANIZATION IN WORLD PERSPECTIVE 3.0
Analysis of characteristics and patterns of urbanism and urbanization in world perspective. Studies multi-faceted problems created by rapid urbanization. Examines role of cities in regional development and modernization of rural sector in third world.
- N 2206 411
PROBLEMS IN URBAN GEOGRAPHY 3.0
Seminar on the application of geographic concepts and theories to the analysis of urban problems. Field or library research projects by students on specific urban problems.
- N 2206 412
GEOGRAPHY OF SUB-SAHARA AFRICA 3.0
Topical and regional study of African soils, vegetation, climate, physiography, mineral resources and other aspects of the physical environment in the light of man's habitation of the continent.
- N 2206 413
GEOGRAPHY OF THE MIDDLE EAST 3.0
Topical study of area extending from Morocco to Iran. Arid land agriculture, nomadism, land tenure systems, settlement patterns, problems of industrial development, and socio-economic and military implications of region's oil wealth. Includes Arab culture and Islamic influences on urban and rural landscapes.
- N 2206 421
POPULATION PROBLEMS OF THE WORLD 3.0
Identification, description and analysis of the present-day distributional patterns of the world's people. Demographic trends, man-land ratios. Mobility, migration and socio-economics, and geographic forces affecting world population. Techniques for measurement and analysis.
- N 2206 423
CULTURE AND RESOURCES UTILIZATION 3.0
Evaluation and utilization of resources. Examines changes of characteristics of physical resources in relation to technological and cultural change, population increase, resource depletion and accelerated redundancy of man.
- N 2206 424
GEOGRAPHY OF NEW JERSEY 3.0
Demographic and economic organization of the state. Spatial contrasts in population density; suburban-central city interactions; the influence of New York and Philadelphia on landscape organization. Philosophical concepts of regionalism and investigation of micro-regionalism in New Jersey.
- N 2206 425
READINGS IN GEOGRAPHY 3.0
Open only to geography honor students. Students will be expected to read a number of the more definitive works in modern geography. Examination will be both oral and written.
- N 2206 426
INDEPENDENT STUDY 3.0
Preparation of a research paper or project to be presented to members of the staff. Junior and senior majors only.
- N 2206 427
PRO-SEMINAR IN GEOGRAPHY 3.0
Problem-oriented seminar. Specific topics in urban, environmental studies or geography. Content changes according to the needs of the instructor.

N 2206 455
FUNDAMENTALS OF REMOTE SENSING OF ENVIRONMENT 3.0
 Systematic study of multiband spectral reconnaissance of the environment; multifrequency radar systems and their uses. Also listed under geoscience as Z 1914 455.
Prerequisite: 9 semester hours of geography or geoscience.

N 2206 460
INTRODUCTION TO URBAN PLANNING 3.0
 This course focuses on the principles, processes and practices of urban planning. The formulation of policies and the management roles of the planning agencies are emphasized.

N 2206 462
PEOPLE AND CITIES: COMPARATIVE URBAN STUDIES 3.0
 Introduction and cross-cultural investigation of the processes of urbanism and urbanization formation; structure and functioning of cities throughout the world.

N 2206 463
INTERNSHIP IN URBAN STUDIES 12.0
 A full semester internship in an urban agency. Students will be expected to carry out agency assignments, observe and participate in decision-making processes and engage in middle management activities. Limited to seniors.
Prerequisite: At least 24 semester hours in the major.

N 2206 464
SENIOR SEMINAR IN URBAN STUDIES (URBAN STUDIES INTERNSHIP) 3.0
 A seminar to be taken in conjunction with the urban studies semester internship, and designed as a synthesis of the various approaches in urban studies which the student has acquired in previous urban-related courses. Each semester the seminar focuses upon a specific in-the-field research project, and an analysis and evaluation of the student's internship experience.
Prerequisites: N 2206 206, N 2206 462.

N 2206 465
HONORS RESEARCH 3.0
 Provides original research experience to superior undergraduates.
Prerequisite: Permission of chairperson and N 2206 309 Research Methods.



Finance and Quantitative Methods

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Harvey Blumberg

This department offers two concentrations within the business administration major. The concentration in finance provides the student with a professional background in both corporate finance and investments. The courses in this concentration are planned on a sequential basis, and the student is advised to plan ahead and complete early the quantitative and economics courses.

The concentration in quantitative methods provides training in quantitative analytical methods for solving operational and research problems in industry. These methods, together with computer applications, are handled in depth to permit a student to become comfortable using statistics, computer science, operations research, and similar quantitative subjects.

A Bachelor of Science degree in business administration with concentrations in either finance or quantitative methods is offered through this department.

Business Administration

Required Courses

	Semester Hours
0502 201 Fundamentals of Accounting I	3
0502 202 Fundamentals of Accounting II	3
0501 261 Legal Environment of Business I	3
0503 270 Statistics for Business	4
0506 311 Management Process and Organizational Behavior	4
0504 321 Fundamentals of Finance	3
0509 340 Introduction to Marketing	3
0503 372 Management Science	4
0506 439 Business Policy	3
0503 463 Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113 Mathematics for Business I—Linear Algebra	3
1701 114 Mathematics for Business II—Calculus	3
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3

Concentration Programs Within the Major

Finance

Required Courses

	Semester Hours
0504 326 Investment Principles	3
0504 322 Capital Budgeting Management	3

0504 327	International Financial Management	3
2204 301	Money and Banking	3
Select one		
0504 328	Multinational Money Management	3
0504 423	Capital Structure Management	3
0504 425	Working Capital Management	3
0504 427	Security Analysis	3
0504 428	Portfolio Theory and its Application	3

Electives (Departmental)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Quantitative Methods

Required Courses

Select Four

0503 315	Production and Industrial Analysis	3
0503 362	Business Economics	3
0503 371	Management Information Systems	3
0503 374	Computer Management	3
0503 375	Operations Analysis	3
0503 386	Logistics Systems	3
0503 474	Business Forecasting	3
0503 475	Quantitative Decision Making For Business	3

Courses of Instruction

D 0503 270
STATISTICS FOR BUSINESS 4.0
 Modern statistical methods and decision making. Topics covered include descriptive statistics, probability theory, estimation sampling, decision analysis, non-parametric methods, regression, time series analysis of variance, and time series analysis.
Prerequisites: Y 1701 113, 114.

D 0503 274
BUSINESS COMPUTER PROGRAMMING 3.0
 Problem-oriented programming languages are studied. Business applications will be programmed in FORTRAN and COBOL. Such programs will be debugged via the computer.

D 0503 315
PRODUCTION AND INDUSTRIAL ANALYSIS 3.0
 This course is designed to expose students to production aspects of industries. It will develop theories and applications in the areas of plant location, capacity planning, facilities design and layout, designing assembly line production systems, facilities maintenance and materials handling, purchasing, inventory control systems, forecasting demand for products, master scheduling and MRP, scheduling and control systems, quality control procedures and statistical quality control.
Prerequisites: D 0503 270 majors only, E 0506 310, instructor's permission.

D 0503 362
BUSINESS ECONOMICS 3.0
 Managerial decision-making, the economic meaning and interpretation of demand and supply, production, competition, cost, price and capital investment. Some mathematical methods, case problems, model-building devices to develop forecasting and decision-making skills.
Prerequisites: C 2204 101 or 102, E 0506 310.

D 0503 371
MANAGEMENT INFORMATION SYSTEMS 3.0
 Total information systems from the perspective of organizations. Information from the management point of view. Its needs, cost and value. Definition and analysis in the solution of systems problems. The computer as a tool of processing accounting, marketing and financial information for decision-making and policy-setting.
Prerequisites: A 0502 202, E 0506 310, D 0503 270.

D 0503 372
MANAGEMENT SCIENCE 4.0
 The student is exposed to a wide variety of mathematically oriented problem solving techniques used in the modern business world. Included are topics of decision theory, inventory theory, linear programming, transportation analysis game theory, Markov analysis, queueing theory, and PERT.
Prerequisite: D 0503 270.

D 0503 374
COMPUTER MANAGEMENT 3.0
 Optimum selection of computer hardware, software and operating systems among various alternatives from a cost effectiveness point of view.
Prerequisite: D 0503 371.

D 0503 375
OPERATIONS ANALYSIS 3.0
 Mathematical and statistical methods in the analysis of specific business systems and industrial production activities, inventory control, production planning and scheduling, and capital management. Computers are used to solve problems involving complex systems.
Prerequisite: D 0503 372.

D 0503 463
ADMINISTRATIVE RESEARCH METHODOLOGY AND ANALYSIS 3.0
 Scientific investigations into business problems, evaluation of data sources, research methods, statistical techniques, analysis and interpretation of data. Individual and team investigation and reporting on current problems.
Prerequisite: D 0503 270, senior standing.

D 0503 474
BUSINESS FORECASTING 3.0
 Mathematical and econometric models for short- and long-range business forecasting. Models are evaluated for accuracy and relevance. The computer is used as a tool in developing an automated system.
Prerequisite: D 0503 270.

D 0503 475
QUANTITATIVE DECISION MAKING FOR BUSINESS 3.0
 Decision-making under conditions of certainty, risk, uncertainty, conflict and competition. The theoretical basis for management decisions and elements of the process. The theory of games and the use of simulation as applied to typical managerial problems.
Prerequisites: E 0506 310, F 0509 340, D 0503 270.

D 0504 321
FUNDAMENTALS OF FINANCE 3.0
 The statement of sources and uses of funds. The evaluation of assets used to acquire and finance corporate ventures. Financial institutions, debt and equity instruments of finance, short- and long-term financing, insuring against risk and uncertainty, optimum capital structure, selection of alternative investments, and dividend and interest policies.
Prerequisites: A 0502 202, C 2204 101, 102.

D 0504 322
CAPITAL BUDGETING MANAGEMENT 3.0
 Analysis of capital expenditures under certainty and uncertainty, lease or purchase decision, mergers and acquisitions, capital reinvestment, extensive use of quantitative tools. Case studies from business situations and current readings.
Prerequisites: C 2204 101, 102, D 0503 270.

D0504 326
INVESTMENT PRINCIPLES 3.0
 Financial assets and markets, investor's attitude, goals and constraints, risk-return characteristics of securities and market instruments. The industry, market and other factors affecting the risk-return situation. Introduction to the valuation of securities and to portfolio management.
Prerequisites: D 0504 321, C 2204 101, 102.

D0504 327
INTERNATIONAL FINANCIAL MANAGEMENT 3.0
 A description and analysis of the unique financial opportunities and problems facing the firm involved in international business activities. Techniques include sources and uses of funds in international environment, short-term international cash and securities management, hedging techniques, capital budgeting and capital costs for the international firm.
Prerequisite: D 0504 321.

D0504 328
MULTINATIONAL MONEY MANAGEMENT 3.0
 Planning of cash management for the firm from the multinational perspective. Cash flows and current assets and liabilities analyzed as they are affected by multinational tax regulations, foreign exchange rates, international market situations and government policies. The impact of currency movements on financial statements, e.g., under FASB Nos. 8, 12, etc. and computer implications and applications will be considered.
Prerequisites: A 0502 202, D 0504 321, D 0504 327.

D0504 432
CAPITAL STRUCTURE MANAGEMENT 3.0
 Development of a firm's optimum capital structure. Analysis of traditional attitudes on debt-equity, Modigliani and Miller's hypotheses, and other leading authors' attitudes from current literature. Cost of capital to growing companies and stable companies for common stock, debt, preferred stock and retained earnings dividend policies, public offerings.

D0504 425
WORKING CAPITAL MANAGEMENT 3.0
 Detailed analysis of a corporation's sources and uses of short-term funds, optimum levels of cash, inventory, accounts receivable, and accounts payable, depreciation, use of surplus cash, commercial paper and financial intermediaries.
Prerequisite: D 0504 321.

D0504 427
SECURITY ANALYSIS 3.0
 Critical examination of investment theories, analysis of securities, primarily of private corporations, evaluations of factors affecting the return from a security, forecasting the return-risk characteristics of stocks and bonds, introduction to portfolio strategies and workable criteria for the selection or rejection of these securities from a portfolio.
Prerequisite: D 0504 326.

D0504 428
PORTFOLIO THEORY AND ITS APPLICATIONS 3.0
 Application of covariance principle in valuation of securities, critical look into management of risk in financial investments, application of this portfolio theory in investment strategies and management of financial institutions, their specific problems, constraints, goals and strategies.
Prerequisite: 6 semester hours in finance.



Fine Arts

SCHOOL OF FINE AND PERFORMING ARTS
Chairperson: Helene Ross

The Fine Arts Department offers a Bachelor of Arts and a Bachelor of Fine Arts degree on the undergraduate level. Students applying for Studio, whether for B.A. or B.F.A., must successfully complete a portfolio review to be accepted into the department. All students in Studio are described as B.A. candidates until the second semester of their sophomore year when a portfolio review is required to determine acceptance into the B.F.A. program. Applicants for Art History do not need portfolio reviews.

The B.A. is a liberal arts degree with four programs: Studio, Art History, Art Education, and Studies in the Visual Arts. The program in Studio is for students interested in liberal arts with a rich studio experience. The Art History program is for students interested in the historical development of art. The program in Fine Arts Education leads to certification to teach in public schools and is intended for students who want to teach art in schools, museums, and community centers. Studies in the Visual Arts is for students seeking an understanding and appreciation of the visual arts.

The B.F.A. degree program is a pre-professional program with specialization in: ceramics, drawing, fabrics, filmmaking, graphic design, illustration, jewelry, multi-media, painting, photography, printmaking, and sculpture. Courses in each specialization give intensive pre-professional experience preparing students for involvement as artists, graphic designers, and illustrators.

Studio (BA)

A liberal arts program for students who want a studio concentration.

Required Courses

	Semester	Hours
1001 101	Design/Foundations of Visual Organization I	3
1001 102	Design/Foundations of Visual Organization II	3
1003 105	Art and Civilization I	3
1003 106	Art and Civilization II	3
1003 451	Contemporary Art	3
1001 107	Drawing I	3
1001 201	Color Studies I	3
1001 220	Life Drawing I	3

Electives (Departmental)

Select 13 semester hours from the appropriate list to be obtained from the department.

Studio (BFA)

A preprofessional program for students who seek preparation as artists.

Required Courses

	Semester	Hours
1001 101	Design/Foundations of Visual Organization I	3

1001 102	Design/Foundations of Visual Organization II	3
1001 107	Drawing I	3
1001 201	Color Studies I	3
1001 220	Life Drawing I	3
1003 105	Art and Civilization I	3
1003 106	Art and Civilization II	3
1003 451	Contemporary Art	3
Studio Electives		15
Major Studio		28
Art History Electives		6
1002 215	Art Forum	2
1003 462	Senior Seminar	3
1091 489	Exhibition Workshop I	3

Art History (BA)

A liberal arts program for students whose interest is in the study of the history and development of the art of mankind in all its variations from antiquity to the twentieth century.

Required Courses

		Semester Hours
1001 101	Design/Foundations of Visual Organization I	3
1001 102	Design/Foundations of Visual Organization II	3
1003 105	Art and Civilization I	3
1003 106	Art and Civilization II	3
1003 462	Senior Seminar	3
1003 463	Resources and Methods of Research in the Arts	3
One Ancient art history course		3
One Medieval art history course		3
One Renaissance art history course		3
One Baroque art history course		3
19th or 20th century art history course		3
Art history elective		3
Studio, Museum Practice, Externship		6

Collateral Courses

1103 123 and 134	Intermediate German I and II	6
1102 101 and 112	Beginning French I and II	6
1509 106	Logic	3
1509 318	Contemporary Aesthetics	3
1599	Old Testament	3
1599	New Testament	3
4903 285	Classical Mythology	3
Theatre history elective		3

Electives (general) 7-16

Studies in the Visual Arts (BA)

A liberal arts program for students seeking an understanding and an appreciation of the visual arts.

Required Courses

	Semester Hours
1001 101	Design/Foundations of Visual Organization I 3
1001 102	Design/Foundations of Visual Organization II 3
1003 250	Modern Philosophies of Art 3
1003 463	Resources and Methods of Research in the Arts 3
One Studio Course 3
3 courses from the following:	
1010 299	History of Cinema as Art 3
1090 401	History of Textiles 3
1011 484	History of Photography 3
4921 464	Art and History of the Print 3
4922 478	Art in Public Places 3
4922 340	Selected Problems in Urban Cultural Development 3
4922 341	History of City Form 3
2208 307	The City and the Arts 3
2208 332	Sociology of Popular Arts 3
1003 326	The Critical Approach 3
1003 451	Contemporary Art 3

Fine Arts Education (BA)

A degree program for students who wish to teach art in various settings including museums, community centers, and schools. Certification is for grades kindergarten through 12.

Required Courses

		Semester	Hours
1001	101	Design/Foundations of Visual Organization I	3
1001	102	Design/Foundations of Visual Organization II	3
1003	105	Art and Civilization I	3
1003	106	Art and Civilization II	3
1001	201	Color Studies I	3
1001	107	Drawing I or 1001 220 Life Drawing I	3
0831	400	Foundations of Methods and Currieulum in Art Education II: K-12	3
1002	200	Painting I	3
1090	202	Ceramics: Pottery and Sculpture I	3
1090	204	Fibers and Fabrics I	3
1001	209	Theatre Arts I	3
1002	211	Sculpture I	3
1001	211	Graphic Design I: Foundation	3
4921	120	Introduction to Printmaking	3
1090	218	Metalwork and Jewelry I	3
1011	213	Photography I: A Contemporary Art Form	3
Electives (Departmental)			2

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Interdepartmental and Interdisciplinary Studies

The School of Fine and Performing Arts believes that interdisciplinary studies are best undertaken from a foundation in a traditional area. Students interested in such studies are therefore required to complete a B.A. concentration in one of the school's departments. To this they add a coherent group of courses in other areas of interest. In some cases, such a group may be an established minor, like computer science or archeology. In other cases, the group may consist of the core courses of a broad discipline, for example, the general business core. On some occasions, students may wish to design their own work in consultation with a faculty member and the academic advisor.

Students interested in interdisciplinary studies should consult the academic advisor as early in their freshman year as possible.

Courses of Instruction

G 0831 250
INTRODUCTION TO ART THERAPY 3.0
Art media are used to create forms that express feeling-thinking patterns; discussion aimed at recognizing how art forms reflect assumptions, attitudes and choices; a variety of modalities used in processing personal symbolism, fantasy and dreams.

G 0831 300
FOUNDATIONS OF METHODS AND CURRICULUM IN ART EDUCATION I: K-12 3.0
Philosophical and theoretical basis of fine arts education; the sources of creativity. Concepts of visual literacy and the role of art in individual human experience and in society; organization and presentation of experience, curriculum construction and application of theory to the school, museum, community center, adult education and other teaching situa-

tions. For Fine Arts Education majors this course must be taken simultaneously with Teacher, School and Society in the spring of the junior year.
Prerequisites: T 2001 101, 200; majors only.

G 0831 310
GROUP ART THERAPY AND CREATIVITY DEVELOPMENT 3.0
 Insight into self-behavior through student participation, a deepening appreciation of the creative process, understanding of self and the relationship between art and psychology.

G 0831 400
FOUNDATION OF METHODS AND CURRICULUM IN ART EDUCATION II: K-12 3.0
 Organization and presentation of art experiences for a wide variety of teaching situations, including K-12, adult classes, museum settings and community centers. Exploration of media, understanding their expressive range, proficiency in their use, and adaptation to various teaching goals. Integration of theory and media.
Prerequisite: G 0831 300; majors only.

G 0831 450
STUDIO TECHNIQUES IN ART THERAPY 3.0
 Materials and techniques of art therapy are directly experienced through practice. Open to non-majors. No previous art background is required.

G 0831 460
ART THERAPY PRACTICE 3.0
 Discussion of case presentations from fieldwork to integrate clinical and didactic experiences.
Prerequisite: G 0831 450.

G 1001 100
INTRODUCTION TO THE VISUAL ARTS 3.0
 The ways in which man has expressed himself in the visual arts including painting, ceramics, sculpture, weaving, printmaking, architecture, the theatre, motion pictures and photography, explored through studio work, demonstrations and trips to art sources. The nature and experience of art, their significance to the individual and their role in a culture. For non-majors.

G 1001 101
DESIGN/FOUNDATIONS OF VISUAL ORGANIZATION I 3.0
 Foundations of visual organization, structured to develop the visual and verbal vocabulary through studio experience, lectures and discussions. Perception is heightened by emphasis on light, line color, plane, texture, form, shape, and time as basic elements in all art form. Two and three dimensional concepts introduced through a variety of materials and processes. Reading and assignments, museum and gallery visits. Required for all art majors.

G 1001 102
DESIGN/FOUNDATIONS OF VISUAL ORGANIZATION II 3.0
 Continuation of G 1001 101. Required of all art majors.
Prerequisite: G 1001 101.

G 1001 103
VISUAL ARTS STUDIO I 3.0
 The art forms (painting, sculpture, drawing, crafts) experienced through exploration of nature, found and manufactured materials. Creative experiences in studio work relating art to the student's primary area of knowledge; the part art experience can play in his life. For students with limited experience.

G 1001 104
VISUAL ARTS STUDIO II 3.0
 Continuation of G 1001 103. For students with limited experience.
Prerequisite: G 1001 103, instructor's permission.

G 1001 107
DRAWING I 3.0
 Basic elements of line, point, shape, figure ground, and space relationships.

G 1001 114
SOURCES: AN EXPLORATION OF THE CREATIVE PROCESS 3.0
 The fundamental awareness which underlies all artistic endeavors (art, music, drama, poetry, literature). Releasing creative blocks and inhibitions through exercises and assignments to stimulate the imagination and awaken the core creative self.

G 1001 115
TECHNIQUE-INCREASED PERCEPTION 3.0
 Exercises designed to increase perception through intense observation, the resulting insights developed into being a personal form of self expression. Emphasis on the process of art rather than the product.

G 1001 125
MULTI-MEDIA I 3.0
 Group work to create a multi-media environment and to perform a multi-media mix creation of the theatrical, architectural, sculptural and technological props and the program for the mix; the psychology of a total art experience.

G 1001 201
COLOR STUDIES I 3.0
 Color and its interaction through problems in color relatedness; systems and theories; color usage, the development of skills in paint application, use of colored papers and techniques of presentation. Lectures, discussions, reading assignments, museum and gallery visits.
Prerequisites: G 1001 101, 102 or instructor's permission.

G 1001 209
THEATRE ARTS I 3.0
 Visual arts aspects of the theatre with emphasis on techniques of group planning; scenery design and preparation, lighting, special effects, sound slides, film, dance, puppets and marionettes.

G 1001 210
THEATRE ARTS II 3.0
 Continuation of G 1001 209.
Prerequisite: G 1001 209.

G 1001 211
INTRODUCTION TO PAPERMAKING 3.0
 Basic methods of making handmade paper as an art form; history and basic principles of handmade paper; contemporary directions and methods of forming.
Prerequisite: G 1001 101, or instructor's permission.

G 1001 212
GRAPHIC DESIGN I: FOUNDATION 3.0
 Exploration of the underlying concepts of visual communication for a mass audience: the psychological sources of image design; symbols and their archetypes; introduction to typography; the metaphorical process and its implications for the graphic designer; historical roots of mass media; and theories and developments of 20th century communication design.
Prerequisite: G 1001 101.

G 1001 215
DRAWING II 3.0
 Continuation of G 1001 107.
Prerequisite: G 1001 107.

G 1001 220
LIFE DRAWING I 3.0
 The structure and proportions of the human form. Expressive drawing is emphasized.

G 1001 225
MULTI-MEDIA II
Continuation of G 1001 125.
Prerequisite: G 1001 125. 3.0

G 1001 275
DRAWING III
Continuation of G 1001 215.
Prerequisite: G 1001 215. 3.0

G 1001 280
LIFE DRAWING II
Continuation of G 1001 220.
Prerequisite: G 1001 220. 3.0

G 1001 301
COLOR STUDIES II
Continuation of G 1001 201.
Prerequisite: G 1001 201. 3.0

G 1001 306
THEATRE ARTS III
Continuation of G 1001 210.
Prerequisite: G 1001 210, instructor's permission. 3.0

G 1001 307
THEATRE ARTS IV
Continuation of G 1001 306.
Prerequisite: G 1001 306, instructor's permission. 3.0

G 1001 311
INTERMEDIATE PAPERMAKING I
Continuation of G 1001 211. Two dimensional and three dimensional forms.
Prerequisite: G 1001 211. 3.0

G 1001 313
GRAPHIC DESIGN II: FOUNDATION
Advanced studies of the fundamental strategies of graphic communication with an increasing emphasis on formal theories of composition and the skills of multi-image and word/image presentation. The symbolic uses of color, the metaphorical implications of relative scale, the organization of typographic forms for power and visual impact.
Prerequisite: G 1001 212 or instructor's permission. 3.0

G 1001 314
INTERMEDIATE PAPERMAKING II
Continuation of G 1001 311. Two dimensional and three dimensional forms.
Prerequisite: G 1001 311. 3.0

G 1001 315
DRAWING IV
Continuation of G 1001 275.
Prerequisite: G 1001 275. 3.0

G 1001 339
VISUAL ARTS STUDIO III
Continuation of G 1001 104. For students with limited experience.
Prerequisite: G 1001 104, instructor's permission. 3.0

G 1001 340
DRAWING V
Continuation of G 1001 315.
Prerequisite: G 1001 315. 3.0

G 1001 350
INDEPENDENT STUDY
Topics for investigation selected with approval of the instructor. May be repeated for credit. 1.0-6.0

G 1001 375
GRAPHIC DESIGN III: DESIGNING
WITH LETTER FORMS
The creative and technical means by which the graphic designer solves actual communication problems through the process of letterform design. Techniques of thumb-nail, roughs and comprehensives for art director and client presentation. How to select appropriate type faces from specimen books for body copy and headlines. Survey of the evolution of 20th century letterform design including a review of current design trends.
Prerequisites: G 1001 212, and 313 or instructor's permission. 3.0

G 1001 400
INDEPENDENT STUDY IN FOUNDATIONS
OF VISUAL ORGANIZATION I
Topics for investigation selected with the approval of the instructor. 3.0

G 1001 401
INDEPENDENT STUDY IN FOUNDATIONS
OF VISUAL ORGANIZATION II
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1001 400. 3.0

G 1001 402
INDEPENDENT STUDY IN FOUNDATIONS
OF VISUAL ORGANIZATION III
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1001 401. 3.0

G 1001 403
INDEPENDENT STUDY IN FOUNDATIONS
OF VISUAL ORGANIZATIONS IV
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1001 402. 3.0

G 1001 404
INDEPENDENT STUDY IN DRAWING I
Topics for investigation selected with the approval of the instructor. 3.0

G 1001 405
INDEPENDENT STUDY IN DRAWING II
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1001 404. 3.0

G 1001 406
INDEPENDENT STUDY IN DRAWING III
Topics for investigation selected with approval of the instructor.
Prerequisite: G 1001 405. 3.0

G 1001 407
INDEPENDENT STUDY IN DRAWING IV
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1001 406. 3.0

G 1001 411
ADVANCED PAPERMAKING I
Continuation of G 1001 314. Development of personal expression and direction in the body of work produced.
Prerequisite: G 1001 314. 3.0

G 1001 415
GRAPHIC DESIGN IV: LAYOUT DESIGN
The process of layout design: how the designer can shape and process the communication through the graphic organization of words and images. The synthesis of photographic, illustrative and typographic elements for the purpose of the presentation and selling of ideas and products. Survey of the evolution of 20th century concepts of graphic design including a review of current design trends.
Prerequisites: G 1001 212, 313, 375 or instructor's permission. 3.0

G 1001 420
INDEPENDENT STUDY-THEATRE ARTS 3.0
Topics for investigation selected with the approval of the instructor.

G 1001 425
MAJOR STUDIO PROJECT I (B.F.A.) 3.0
With faculty advisement, each senior student will design and develop a studio project in a chosen area of specialization. The body of the work will be completed in Major Studio Project II.
Prerequisite: Permission of B.F.A. coordinator.

G 1001 440
ADVANCED PAPERMAKING II 3.0
Continuation of G 1001 411. Development of personal expression and direction in the body of work produced.
Prerequisite: G 1001 411.

G 1001 441
LIFE DRAWING III 3.0
Continuation of G 1001 321.
Prerequisite: G 1001 321.

G 1001 442
LIFE DRAWING IV 3.0
Continuation of G 1001 441.
Prerequisite: G 1001 441.

G 1001 443
INDEPENDENT STUDY IN LIFE DRAWING I 3.0
Topics for investigation selected with approval of the instructor.

G 1001 444
INDEPENDENT STUDY IN LIFE DRAWING II 3.0
Topics for investigation selected with approval of the instructor.
Prerequisite: G 1001 443.

G 1001 448
CRITIQUE IN ART 1.0
Discussion of their work by students from various studio areas. Visiting artists will occasionally join. For fine arts majors of advanced standing.

G 1001 450
MAJOR STUDIO PROJECT II (B.F.A.) 10.0
With faculty advisement, each senior student will complete and present a body of work in an area of extended specialization, the same area of specialization already established and explored in Major Studio I.
Prerequisite: G 1001 425; permission of B.F.A. coordinator.

G 1001 460
GRAPHIC DESIGN V: PRODUCTION FOR THE DESIGNER 3.0
How a graphic designer prepares for final client presentation and print media reproduction. Techniques in photo and hand separation mechanicals, comprehensives, type-specification, translation of typewritten manuscripts into body copy designs. Introduction to mechanical materials and tools of the production artist. Scaling of photographs, line options, multi-color registration, screen selection, and how to use this knowledge to guide the design process with respect to paper size, color and photo reproductive budget restrictions.
Prerequisites: G 1001 212, 313, 375, 415 or instructor's permission.

G 1001 465
EXTERNSHIP AND FIELD EXPERIENCE I 2.0-8.0
Involvement beyond the campus in a museum, art institution, or industry, participation in inner-city art programs, or study with an independent artist

or artist-craftsman. Approval by a supervising faculty member required. Total semester hours from externship and field experience courses combined (G 1001 465, 466, 467, 468) shall not exceed 8 hours.
Prerequisite: Instructor's permission.

G 1001 466
EXTERNSHIP AND FIELD EXPERIENCE II 2.0-8.0
Continuation of G 1001 465.
Prerequisite: G 1001 465; instructor's permission.

G 1001 467
EXTERNSHIP AND FIELD EXPERIENCE III 2.0-8.0
Continuation of G 1001 466.
Prerequisite: G 1001 466; instructor's permission.

G 1001 468
EXTERNSHIP AND FIELD EXPERIENCE IV 2.0-8.0
Continuation of G 1001 467.
Prerequisite: G 1001 467; instructor's permission.

G 1001 475
DRAWING VI 3.0
Continuation of G 1001 340.
Prerequisite: G 1001 340.

G 1001 486
VISUAL ARTS STUDIO IV 3.0
Continuation of G 1001 339. For students with limited experience.
Prerequisite: G 1001 339.

G 1002 200
PAINTING I 3.0
Exploration of painting media and modes of expression. Reading, gallery and museum visits.

G 1002 201
PAINTING II 3.0
Continuation of G 1002 200.
Prerequisite: G 1002 200.

G 1002 210
VISUAL ARTS WORKSHOP 1.0-12.0
Selected studio topics which represent current concerns within the contemporary world of the visual arts. May be repeated for credit.

G 1002 211
SCULPTURE I 3.0
Sculptural concepts using materials like plaster, metal, plastics, stone and wood. Gallery and museum visits.

G 1002 212
SCULPTURE II 3.0
Continuation of G 1002 211.
Prerequisite: G 1002 211.

G 1002 215
ART FORUM 2.0
Talks and presentations by artists, critics, museum directors, art historians. May be repeated for credit.

G 1002 244
SCULPTURE: MODELING AND CASTING I 3.0
Forming by the additive process using one or more mold-making techniques, clay, plaster, cement and plastics. Further modeling and casting processes. Museum visits and reading assignments.

G 1002 246 SCULPTURE: METAL CASTING I Basic technology of metal casting in the lost wax process. Experimentation with the various materials related to the casting process, modeling, spruing and venting, investment of the model, burn-out of the mold, pouring the metal, cleaning, chasing and finishing the metal cast. Museum visits and reading assignments.	3.0	G 1002 309 SCULPTURE IV Continuation of G 1002 308. <i>Prerequisite: G 1002 308.</i>	3.
G 1002 247 SCULPTURE: FABRICATION I Sculpture formed by constructive methods. Form and space relationships; a professional sequence of drawings, model building, testing of materials, joining methods, full-scale execution. Museum visits and reading assignments.	3.0	G 1002 316 PAINTING III Continuation of G 1002 201. <i>Prerequisite: G 1002 201.</i>	3.
G 1002 249 SCULPTURE: CLAY I The use of clay to create sculpture forms; emphasis on developing skills and strengthening understanding of sculpture as an art form. Finished works may be composed of fired clay or unfired clay or clay in combination with other materials. <i>Prerequisite: G 1090 202.</i>	3.0	G 1002 317 PAINTING IV Continuation of G 1002 316. <i>Prerequisite: G 1002 316.</i>	3.
G 1002 250 FIGURATIVE PAINTING Rendering the human figure and expressing creative insights into figurative painting. <i>Prerequisites: G 1002 200, instructor's permission.</i>	3.0	G 1002 344 SCULPTURE: MODELING AND CASTING III Continuation of G 1002 254. <i>Prerequisite: G 1002 254.</i>	3.
G 1002 254 SCULPTURE: MODELING AND CASTING II Continuation of G 1002 244. <i>Prerequisite: G 1002 244.</i>	3.0	G 1002 346 SCULPTURE: METAL CASTING III Continuation of G 1002 256. <i>Prerequisite: G 1002 256.</i>	3.
G 1002 256 SCULPTURE: METAL CASTING II Continuation of G 1002 246. <i>Prerequisite: G 1002 246.</i>	3.0	G 1002 347 SCULPTURE: FABRICATION III Continuation of G 1002 257. <i>Prerequisite: G 1002 257.</i>	3.
G 1002 257 SCULPTURE: FABRICATION II Continuation of G 1002 247. <i>Prerequisite: G 1002 247.</i>	3.0	G 1002 349 SCULPTURE: CLAY III Continuation of G 1002 259. <i>Prerequisite: G 1002 259.</i>	3.
G 1002 259 SCULPTURE: CLAY II Continuation of G 1002 249. <i>Prerequisite: G 1002 249.</i>	3.0	G 1002 350 METALS III Continuation of G 1002 270. <i>Prerequisite: G 1002 270.</i>	3.
G 1002 260 METALS I Production of sculpture through the casting or welding processes. With the permission of the instructor, a student may elect to concentrate in one of these areas throughout the semester, explore both approaches to metal sculpture or combine both processes in finished pieces. Slide lectures, critiques and visits to the galleries and museums in New York. <i>Prerequisite: G 1002 246 and 247, or permission of instructor.</i>	3.0	G 1002 408 INDEPENDENT STUDY: PAINTING I Topics for investigation selected with approval of instructor.	3.
G 1002 270 METALS II Continuation of G 1002 260. <i>Prerequisite: G 1002 260.</i>	3.0	G 1002 409 INDEPENDENT STUDY: PAINTING II Topic for investigation selected with approval of instructor. <i>Prerequisite: G 1002 408.</i>	3.
G 1002 308 SCULPTURE III Continuation of G 1002 212. <i>Prerequisite: G 1002 212.</i>	3.0	G 1002 410 INDEPENDENT STUDY: PAINTING III Topics for investigation selected with approval of instructor. <i>Prerequisite: G 1002 409.</i>	3.
		G 1002 411 INDEPENDENT STUDY: PAINTING IV Topics for investigation selected with approval of instructor. <i>Prerequisite: G 1002 410.</i>	3.
		G 1002 415 PAINTING V Continuation of G 1002 317. <i>Prerequisite: G 1002 317.</i>	3.
		G 1002 416 PAINTING VI Continuation of G 1002 415 <i>Prerequisite: G 1002 415.</i>	3.

G 1002 421				G 1003 215			
INDEPENDENT STUDY: SCULPTURE I	3.0			ANCIENT ART	3.0		
Topics for investigation selected with approval of instructor.				The origins of man's art and civilizations of the ancient world: Paleolithic man and the Sumerian, Hittite, Assyrian, Phoenician and Egyptian civilizations.			
G 1002 422				G 1003 216			
INDEPENDENT STUDY: SCULPTURE II	3.0			RENAISSANCE ART IN ITALY: THE FIFTEENTH CENTURY	3.0		
Topics for investigation selected with approval of instructor.				The formation of Renaissance painting, sculpture and architecture during the Quattrocento; Masaccio, Mantegna, Donatello, Brunelleschi, and Alberti emphasized.			
<i>Prerequisite: G 1002 421.</i>				G 1003 217			
G 1002 423				SELECTED MASTERPIECES WORLD ART	3.0		
INDEPENDENT STUDY: SCULPTURE III	3.0			An introduction to key works of art representing prehistoric cultures, the ancient world, the East, the Renaissance, and the modern period. Museum and gallery trips, reading and discussion. For non-Art majors.			
Topics for investigation selected with approval of instructor.				G 1003 220			
<i>Prerequisite: G 1002 422.</i>				ART IN NON-WESTERN SOCIETIES	3.0		
G 1002 424				A consideration of the role of art in traditional non-western societies, including an examination of the integration of art into the society as a whole, the religions, economics, environment and social order; the role art plays in social change and how it is affected by social change.			
INDEPENDENT STUDY-SCULPTURE IV	3.0			G 1003 250			
Topics for investigation selected with approval of instructor.				MODERN PHILOSOPHIES OF ART	3.0		
<i>Prerequisite: G 1002 423.</i>				The work of major writers about art in the nineteenth and twentieth centuries; the nature of the creative experience, the function of art in the life of the individual and of society, the nature of the creative process, the rise of new materials and institutions, the development of sentiments and attitudes affecting thinking in the field.			
G 1002 447				G 1003 275			
PAINTING THE ENVIRONMENT	3.0			AFRO-AMERICAN ART	3.0		
Interpretation of landscape as a unique source of pictorial ideas; the history of landscape painting.				Afro-American art in the United States from colonial times to the present.			
<i>Prerequisite: Instructor's permission.</i>				G 1003 322			
G 1002 450				EARLY CHRISTIAN-BYZANTINE ART	3.0		
METALS IV	3.0			The emergence and development of early Christian art from its classical and late classical antecedents and its development up to Byzantine art.			
Continuation of G 1002 350.				G 1003 323			
<i>Prerequisite: G 1002 350.</i>				MEDIEVAL ART	3.0		
G 1002 488				Painting, sculpture and architecture in the Romanesque and Gothic periods.			
SCULPTURE: MODELING AND CASTING IV	3.0			G 1003 324			
Continuation of G 1002 344.				NORTHERN RENAISSANCE PAINTING	3.0		
<i>Prerequisite: G 1002 344.</i>				Fifteenth and sixteenth century painting in northern Europe with particular attention to Flanders and Holland; emphasis on Jan Van Eyck, Van der Weyden, Bosch, Peter Bruegel, and Matthias Gruenewald.			
G 1002 489				G 1003 325			
SCULPTURE: CLAY IV	3.0			SEVENTEENTH AND EIGHTEENTH CENTURY ART	3.0		
Continuation of 1002 349.				Painting, sculpture, and architecture in western Europe from 1600 to 1800. Baroque and Rococo styles with emphasis on El Greco, Bernini, Rubens, Rembrandt, Poussin and Watteau.			
<i>Prerequisite: G 1002 349.</i>				G 1003 327			
G 1002 496				HISTORY OF ORIENTAL ART	3.0		
SCULPTURE: METAL CASTING IV	3.0			The factors that shaped oriental society. The art of China, Korea, Japan, India, southeast Asia and the neighboring Islamic world.			
Continuation of 1002 346.				G 1003 328			
<i>Prerequisite: G 1002 346.</i>				SURVEY OF GREEK ART	3.0		
G 1002 497				Greek art including painting, sculpture and architecture from the Bronze Age through the Hellenistic period.			
SCULPTURE: FABRICATION IV	3.0						
Continuation of 1002 347.							
<i>Prerequisite: G 1002 347.</i>							
G 1003 105							
ART AND CIVILIZATION I	3.0						
The history of art from its beginning to the present. Museum visits and extensive reading. Required for fine arts majors.							
G 1003 106							
ART AND CIVILIZATION II	3.0						
Continuation of 1003 105. Required for fine arts majors.							
<i>Prerequisite: G 1003 105.</i>							
G 1003 108							
WOMEN IN ART	3.0						
Introduce and interpret the role and status of women in art from the Old Stone Age through the present. After a brief historical introduction to the special roles of women in the past in society, the role of women artists in Western culture will be explored from the Renaissance to the present, as well as depictions of women in different iconographic categories. Finally, women as artists today will be discussed in terms of their current social position.							

- G 1003 329
AMERICAN ART 3.0
Art in the United States from the colonial period through the nineteenth century; the development of an American style in the light of its relationship to and dependence upon European art.
- G 1003 332
ANCIENT ART OF EUROPE 3.0
The non-classical traditions in prehistoric and early medieval Europe; the continuity of native, anticlassical artistic trends from the cave art of paleolithic Europe to the migration arts of the early Middle Ages; the arts of the builders of Stonehenge, the Scythians, Huns, Celts, Goths and Vikings.
Prerequisite: Instructor's permission.
- G 1003 450
MODERN ARCHITECTURE 3.0
Major contributions to the development of modern architecture in the nineteenth and twentieth centuries; the development of styles, structural innovations and theories of design.
- G 1003 451
CONTEMPORARY ART 3.0
The work of major artists of the twentieth century with particular reference to the dominant ideas of the period; readings, museum trips, discussion of contemporary writing and criticism.
- G 1003 452
RENAISSANCE ART IN ITALY: THE SIXTEENTH CENTURY 3.0
The great masters of the Cinquecento: Leonardo, Michelangelo, Raphael, Giorgione and Titian; the emergence of mannerist art in Rome, Venice, Florence and Bologna.
- G 1003 454
FIELD TRIPS IN ART HISTORY 3.0
An intensive three-week tour of major centers of art in conjunction with specific courses in art history, e.g., field trips in the United States or abroad. Offered only during winter session.
- G 1003 455
SELECTED PROBLEMS IN ART HISTORY 3.0
A seminar in topics like the works of an individual artist or a particular theme in art history (e.g. the human figure) or a particular technique (e.g. sculpture). Lectures, reports, museum and studio visits, discussion. May be repeated for credit.
- G 1003 457
PRE-COLUMBIAN, OCEANIC AND AFRICAN ART 3.0
The major styles of Oceania, Africa, South and Central America before Columbus.
- G 1003 458
TRADITIONAL ARTS OF SUB-SAHARAN AFRICA 3.0
The painting, sculpture and minor arts of the cultures of Africa; prehistoric remains and art traditions of the more recent past in the context of stylistic groupings, relation to ceremony and to daily life; symbolism and relations to the arts of other cultures.
- G 1003 459
ART OF THE NINETEENTH CENTURY 3.0
The major movements of the nineteenth century: classicism, romanticism and realism; the salon at midcentury, impressionism, post-impressionism.
- G 1003 461
NINETEENTH CENTURY AMERICAN PAINTING 3.0
Painting in the United States during the nineteenth century: portrait, landscape and genre traditions; the Hudson River school; the genre painters; the expatriates and the independents; folk and naïf paintings. Some knowledge of European painting is desirable.
- G 1003 462
SENIOR SEMINAR 3.0
Seminar in selected artistic problems of historic, social and philosophical nature.
Prerequisite: Instructor's permission.
- G 1003 463
RESOURCES AND METHODS OF RESEARCH IN THE ARTS 3.0
Bibliographic and other scholarly resources; the special problems of scholarship and research.
- G 1003 469
ART OF THE TWENTIETH CENTURY 3.0
From Picasso to today; scientific and social forces transforming the artist's vision, including the theories of Freud and Bergson.
- G 1003 483
INDEPENDENT STUDY IN ART HISTORY 2.0-8.0
May be repeated for credit.
Prerequisite: Instructor's permission.
- G 1003 485
ANCIENT ART IN ITALY: ETRUSCAN AND ROMAN ART 3.0
The arts of the Etruscans and Romans in their historical, cultural and religious settings.
- G 1010 218
FILMMAKING I 3.0
Basic elements of Super 8 film production: script, camera, lighting, sound, editing, animation.
- G 1010 219
FILMMAKING II 3.0
Basic elements of 16 mm film production. Script, camera, lighting, sound editing, animation.
Prerequisite: G 1010 218, instructor's permission.
- G 1010 221
VIDEO-TELEVISION AS AN ART FORM I 3.0
Artistic statements are produced on tape and film.
Prerequisite: Instructor's permission.
- G 1010 222
VIDEO-TELEVISION AS AN ART FORM II 3.0
Continuation of G 1010 221.
Prerequisite: G 1010 221, instructor's permission.
- G 1010 299
HISTORY OF CINEMA AS ART 3.0
The development of the motion picture as an art form from its earliest stage to the present; the technical, social, economic, cultural and esthetic factors. May be repeated once for credit.
- G 1010 336
VIDEO-TELEVISION AS AN ART FORM III 3.0
Continuation of G 1010 222.
Prerequisite: G 1010 222, instructor's permission.
- G 1010 450
THE AVANT-GARDE CINEMA 3.0
The avant-garde cinema from its 1920-30 European surrealist roots through the 1940's American school to present-day experimental, structural and personal films.
- G 1010 453
FILMMAKING III 3.0
Continuation of 1010 219.
Prerequisite: G 1010 219.

G 1010 474 VIDEO-TELEVISION AS AN ART FORM IV Continuation of G 1010 336. <i>Prerequisite: G 1010 336, instructor's permission.</i>	3.0	G 1011 410 THE COLOR PHOTOGRAPHIC PRINT: A CONTEMPORARY ESTHETIC APPROACH II Photographic and printing techniques for color; history of color photographic print. Museum and gallery visits. <i>Prerequisite: G 1011 310 or instructor's permission.</i>	4.0
G 1010 491 INDEPENDENT STUDY IN FILM I Topics selected with the approval of the instructor.	3.0	G 1011 425 INDEPENDENT STUDY IN PHOTOGRAPHY: A CONTEMPORARY ART FORM I Topics for investigation selected with the approval of the instructor.	3.0
G 1010 492 INDEPENDENT STUDY IN FILM II Topics selected with the approval of the instructor. <i>Prerequisite: G 1010 491.</i>	3.0	G 1011 426 INDEPENDENT STUDY IN PHOTOGRAPHY: A CONTEMPORARY ART FORM II Topics for investigation are selected with the approval of the instructor. <i>Prerequisite: G 1011 425.</i>	3.0
G 1010 493 INDEPENDENT STUDY IN FILM III Topics selected with the approval of the instructor. <i>Prerequisite: G 1010 492.</i>	3.0	G 1011 427 INDEPENDENT STUDY IN PHOTOGRAPHY: A CONTEMPORARY ART FORM III Topics for investigation selected with the approval of the instructor. <i>Prerequisite: G 1011 426.</i>	3.0
G 1010 494 INDEPENDENT STUDY IN FILM IV Topics selected with the approval of the instructor. <i>Prerequisite: G 1010 493.</i>	3.0	G 1011 428 INDEPENDENT STUDY IN PHOTOGRAPHY: A CONTEMPORARY ART FORM IV Topics for investigation selected with the approval of the instructor. <i>Prerequisite: G 1011 427.</i>	3.0
G 1010 499 FILMMAKING IV Continuation of G 1010 453. <i>Prerequisite: G 1010 453.</i>	3.0	G 1011 450 COMMERCIAL PHOTOGRAPHY Workshop and problem solving of commercial applications in photography; view camera to 35mm, color and black and white materials, studio lighting, photo illustration, photo essay, marketing, field trips. Visiting professionals. <i>Prerequisite: G 1011 310, majors only.</i>	4.0
G 1011 213 PHOTOGRAPHY I: A CONTEMPORARY ART FORM The essentials of the photographic process including developing, enlarging, and exhibiting. Trips, films, discussion, lectures, criticism and demonstration.	3.0	G 1011 484 A HISTORY OF PHOTOGRAPHY The roots of photography; its practitioners and the social and historical circumstances surrounding its creation.	3.0
G 1011 214 INTERMEDIATE PHOTOGRAPHY: A CONTEMPORARY ART FORM Continuation of G 1011 213. <i>Prerequisite: G 1011 213.</i>	3.0	G 1090 200 LEATHER I Use of skins and hides to create items of artistic and/or functional value. Emphasis on the design and execution of works in one or all forms of leather and fur.	3.0
G 1011 231 HUMOROUS AND SATIRICAL ILLUSTRATION FOR PUBLICATION Designing comic illustration for publication; development of a visual concept; translating the concept into a rough layout; readying the work for publication.	3.0	G 1090 202 CERAMICS: POTTERY AND SCULPTURE I Forming methods, clay composition, glazing and firing, the history of ceramics.	3.0
G 1011 250 PHOTOTRANSparency MATERIALS Control and manipulation of color and monochrome transparency materials. Emphasis on visual awareness, personal direction, and technical skills. <i>Prerequisite: G 1011 213 or instructor's permission.</i>	4.0	G 1090 203 CERAMICS: POTTERY AND SCULPTURE II Continuation of G 1090 202. <i>Prerequisite: G 1090 202.</i>	3.0
G 1011 310 ADVANCED PHOTOGRAPHY: A CONTEMPORARY ART FORM Workshop, discussion, lecture, demonstrations, criticism; photography as an intensive learning experience; light sensitive materials, controls, photographic approach, selection, system and view camera. <i>Prerequisite: G 1011 214.</i>	4.0	G 1090 204 FIBERS AND FABRICS I Techniques employed by fiber artists and the textile industry; on-loom and off-loom weaving; spinning and vegetable dyeing; and fabric and fiber techniques in contemporary work.	3.0
G 1011 311 SPECIAL PROCESS IN PHOTOGRAPHY Non-traditional light sensitive materials for use in the photographic image making process; extension of traditional boundaries of photography through new tools permitting greater image manipulation: gum bichromate, cyanotype, platinum, photo etching, and others. <i>Prerequisite: G 1011 214.</i>	4.0	G 1090 205 FIBERS AND FABRICS II One or more areas of endeavor selected for exploration. Emphasizes research into the various techniques and mastery of the methods. <i>Prerequisite: G 1090 204</i>	3.0

G 1090 206 LEATHER II Continuation of G 1090 200. <i>Prerequisite: G 1090 200.</i>	3.0	G 1090 335 METALWORK AND JEWELRY III Traditional techniques, advanced design concepts and techniques. <i>Prerequisite: G 1090 219.</i>	3.0
G 1090 207 SURFACE DESIGN I Selected printing, dyeing and fabric manipulation techniques. <i>Prerequisite: G 1090 204.</i>	3.0	G 1090 350 CERAMICS: POTTERY AND SCULPTURE V Continuation of G 1090 302. <i>Prerequisite: G 1090 302.</i>	3.0
G 1090 210 TEXTILE DESIGN I Pattern rendering and putting designs into repeat for the textile industry.	3.0	G 1090 400 TEXTILE TRADITIONS Study of the unchanged textile traditions of both the East and West and their relations to the contemporary fiber experience.	3.0
G 1090 218 METALWORK AND JEWELRY I Introduction to metal working and jewelry techniques traditionally used in the shaping of useful articles.	3.0	G 1090 401 HISTORY OF TEXTILES The evolution of textile equipment and techniques from primitive cultures to the contemporary era.	3.0
G 1090 219 METALWORK AND JEWELRY II Advanced design concepts and metalworking techniques. <i>Prerequisite: G 1090 218.</i>	3.0	G 1090 407 FIBER SOURCES FIELD TRIPS Weekly field trips to museums and galleries, artists studios and textile companies in New York and New Jersey. <i>Prerequisite: G 1090 204.</i>	3.0
G 1090 225 SURFACE DESIGN II Continuation of G 1090 207. <i>Prerequisite: G 1090 207.</i>	3.0	G 1090 412 INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE I Topics for investigation selected with the approval of the instructor.	3.0
G 1090 301 CERAMICS: POTTERY AND SCULPTURE III Continuation of 1090 203. <i>Prerequisite: G 1090 203.</i>	3.0	G 1090 413 INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE II Topics for investigation selected with the approval of the instructor. <i>Prerequisite: G 1090 412.</i>	3.0
G 1090 302 CERAMICS: POTTERY AND SCULPTURE IV Continuation of 1090 301. <i>Prerequisite: G 1090 301.</i>	3.0	G 1090 414 INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE III Topics for investigation selected with the approval of the instructor. <i>Prerequisite: G 1090 413.</i>	3.0
G 1090 304 FIBERS AND FABRICS III Further exploration of a technique or techniques selected by the student. A research paper on the historical implications of a technique and a final project are required. <i>Prerequisite: G 1090 205.</i>	3.0	G 1090 415 INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE IV Topics for investigation are selected with the approval of the instructor. <i>Prerequisite: G 1090 414.</i>	3.0
G 1090 305 FIBERS AND FABRICS IV Exploration of area or areas of textile techniques selected by the student. An exhibit of work done during the semester is to be planned and hung by the student. <i>Prerequisite: G 1090 304.</i>	3.0	G 1090 416 INDEPENDENT STUDY I: TEXTILES Topics for investigation selected with the approval of the instructor.	3.0
G 1090 310 LEATHER III Continuation of G 1090 206. <i>Prerequisite: G 1090 206.</i>	3.0	G 1090 417 INDEPENDENT STUDY II: TEXTILES Topics for investigation are selected with the approval of the instructor. <i>Prerequisite: G 1090 416.</i>	3.0
G 1090 320 SURFACE DESIGN III Continuation of G 1090 225. <i>Prerequisite: G 1090 225.</i>	3.0	G 1090 418 INDEPENDENT STUDY III: TEXTILES Topics for investigation are selected with the approval of the instructor. <i>Prerequisite: G 1090 417.</i>	3.0
G 1090 325 SURFACE DESIGN IV Continuation of 1090 320. <i>Prerequisite: G 1090 320.</i>	3.0	G 1090 419 INDEPENDENT STUDY IV: TEXTILES Topics for investigation are selected with the approval of the instructor. <i>Prerequisite: G 1090 418.</i>	3.0

G 1090 420 SURFACE DESIGN V Continuation of G 1090 325. <i>Prerequisite: G 1090 325.</i>	3.0	G 1091 330 MUSEUM PRACTICE A study of museum techniques, much of it at museums in the metropolitan area with the participation of their staffs. Field trips and, if possible, brief apprenticeships.	3.0
G 1090 425 SURFACE DESIGN VI Advanced studies in printing, dyeing and manipulation of fabric techniques. <i>Prerequisite: G 1090 420.</i>	3.0	G 1091 489 EXHIBITION WORKSHOP I Exhibition techniques and procedures; mounting of shows on campus.	3.0
G 1090 436 METALWORK AND JEWELRY IV Continuation of G 1090 335. <i>Prerequisite: G 1090 335.</i>	3.0	G 1091 490 EXHIBITION WORKSHOP II Continuation of G 1091 489 <i>Prerequisite: G 1091 489.</i>	3.0
G 1090 437 INDEPENDENT STUDY: METALWORK AND JEWELRY I Topics for investigation selected with the approval of the instructor.	3.0	H 1099 100 INTRODUCTION TO THE FINE AND PERFORMING ARTS Examination through study and experience of esthetic and practical considerations in theatre, music and the visual arts. Problems of form, style, media and meaning. Team taught.	3.0
G 1090 438 INDEPENDENT STUDY IN METALWORK AND JEWELRY II Topics for investigation selected with the approval of the instructor. <i>Prerequisite: G 1090 437.</i>	3.0	G 1099 450 INTRODUCTION TO PERFORMING ARTS MANAGEMENT I Structures of performing arts organizations in the U.S. <i>Prerequisite: 9 semester hours in arts appreciation or applied work. Permission of instructor or department.</i>	3.0
G 1090 439 INDEPENDENT STUDY IN METAL WORK AND JEWELRY III Topics for investigation selected with the approval of the instructor. <i>Prerequisite: G 1090 438.</i>	3.0	G 1099 451 INTRODUCTION TO PERFORMING ARTS MANAGEMENT II Problems and theories of arts management for performing groups in the U. S. Marketing, production, fund-raising and other aspects of operation. <i>Prerequisite: G 1099 450 or permission of instructor.</i>	3.0
G 1090 440 INDEPENDENT STUDY IN METALWORK AND JEWELRY IV Topics for investigation selected with the approval of the instructor. <i>Prerequisite: G 1090 439.</i>	3.0	G 1099 460 INTERNSHIP IN PERFORMING ARTS MANAGEMENT I Field work, 2 days per week (or the equivalent) in a professional situation. On-the-job training in day-to-day operations of a performing arts organization. Students will participate in all facets of production, observe decision-making activities. Registrants must drive and provide own transportation. <i>Prerequisite: G 1099 450, 451, permission of sponsor, permission of dept. chairperson, 1 semester of psychology.</i>	4.0
G 1090 441 FIBERS AND FABRICS V Continuation of G 1090 305. <i>Prerequisite: G 1090 305.</i>	3.0	G 1099 461 INTERNSHIP IN PERFORMING ARTS MANAGEMENT II Continuation of Internship in Performing Arts Management I. Two days per week or equivalent in field work with an arts organization devoted to performance. Registrants must drive and provide own transportation. <i>Prerequisite: G 1099 460, permission of sponsor, permission of department.</i>	4.0
G 1090 442 FIBERS AND FABRICS VI Continuation of comprehensive studies in progress through Fibers and Fabrics I-V. <i>Prerequisite: G 1090 441.</i>	3.0	G 1099 462 INTERNSHIP IN PERFORMING ARTS MANAGEMENT III Full semester's internship in a performing arts organization with time allocation mutually decided by the sponsor and the student's major department. Interns must be able to drive and to provide own transportation. <i>Prerequisites: G 1099 460, 461, permission of sponsor, permission of major department.</i>	1.0
G 1090 450 APPLIED TEXTILE DESIGN Designing for the power loom with emphasis on the Jacquard process. <i>Prerequisites: G 1090 305, instructor's permission.</i>	3.0		
G 1090 480 CERAMICS: POTTERY AND SCULPTURE VI Continuation of G 1090 350. <i>Prerequisite: 1090 350.</i>	3.0		
G 1090 496 LEATHER IV A continuation of the study of skins, hides and fur as creative materials. Emphasis is placed on the use of the basic skills learned in the preceding courses. <i>Prerequisite: G 1090 310.</i>	3.0		

- G 1099 470
EXTERNSHIP IN PERFORMING ARTS MANAGEMENT 1.0
 Management of an arts organization arranged in cooperation with the major department and umbrella organizations. Credit to be arranged.
Prerequisites: G 1099 450, 451, two semesters of internship, permission of sponsor(s) and major department.
- G 4921 120
INTRODUCTION TO PRINTMAKING 3.0
 Woodcut, screen printing and monoprints; etching, drypoint and lithography. Exploration of new and advanced techniques.
- G 4921 200
INTRODUCTION TO INTAGLIO AND RELIEF PRINTING 3.0
 Drypoint, engraving, etching and major techniques like line and open bite, soft ground, stop out procedure, life ground, mezzotint and aquatint.
- G 4921 201
INTRODUCTION TO SCREEN PRINTING 3.0
 Screen printing including misfit, tusche, glue, lacquer and stencil and photographic techniques.
- G 4921 202
INTRODUCTION TO LITHOGRAPHY 3.0
 Chemicals, tools, materials and techniques of the process.
- G 4921 220
GRAPHIC TECHNOLOGY FOR THE ARTIST AND DESIGNER 3.0
 A survey of the techniques used in the production of all printed material. Students will gain experience in the use of materials and equipment commonly used by commercial printers, graphic designers, photographers, and printmakers. (Use of the following materials: Orthochromatic films and papers, Cibachrome color process materials, Diazo materials, 3-M Color Key proofing films. Use of the following machines: Vertical Copy Camera, Ilford Color Copier, Diazo Machine, Platemaker, Diffusion Transfer Processor.)
- G 4921 230
HISTORY OF THE PRINT 3.0
 The principal types of prints from their beginnings to today. For both majors and students in other fields.
- G 4921 334
MEDIA COMMUNICATION I: PUBLICATION DESIGN 3.0
 Advanced design problems for publications ranging from posters to brochures, pamphlets and booklets to magazines and other editorial formats emphasizing two-dimensional multiple page or multiple panel layout. Character count and projection of space requirements, economics of paper stock and size selection, exploiting the potential on one, two and three color jobs through screens and over-printing.
Prerequisites: G 1001 212, 313, 375, 415, 460 or instructor's permission.
- G 4921 340
MEDIA COMMUNICATION II: PACKAGE DESIGN 3.0
 A survey of the state of the art in packaging. Course projects will be based on the consumer product industry. Graphic problems for three-dimensional objects and display. Package design comprehensive techniques for Art Director and Client presentation. Grasping product essence and interpreting client needs and the demands of the marketplace.
Prerequisites: G 1001 212, 313, 375, 415, 460 or instructor's permission.
- G 4921 344
TYPOGRAPHY I 3.0
 Advanced problems of typographic design including headline letter spacing, complex problems of body copy design and the fine points of leading, column width, copy color, mixing of faces, use of negative space in typographic composition so that an idea is communicated without actually being read. Study of the great typographic designers of our time and the subtleties of personal style. Current trends in typography.
Prerequisites: G 1001 212, 313, 375, 415, 460, or instructor's permission.
- G 4921 348
TYPOGRAPHY II: CORPORATE IDENTIFICATION SYSTEMS AND LOGO DESIGN 3.0
 Analysis of identity systems from cottage industries to corporate giants. Development, presentation, consistency and projected public image. Historical roots of identity symbols and systems from ancient to contemporary in religious, political and social usage. Design problems in logo and system design.
Prerequisites: G 1001 212, 313, 375, 415, 460 or instructor's permission.
- G 4921 350
ILLUSTRATION I: SURVEY OF CONCEPTS AND METHODS 3.0
 A study of the major historical and contemporary themes of illustration and its influences. Through slide presentation the work of leading illustrators will be shown and discussed, and the relationship between commercial art and fine art will be explored. Illustration assignments will provide concrete experience of the related thematic issues and introduce formal approaches and relevant techniques.
Prerequisites: G 1001 212 or instructor's permission.
- G 4921 352
ILLUSTRATION II: DRAWING: MATERIALS AND TECHNIQUES 3.0
 The illustrator's approach to drawing, from the preliminary brainstorming and rough sketches to the finished art. Emphasis will be placed upon the quality of line, delineation of form and techniques of shading and their special relationship to print reproduction. Materials and techniques used in illustration including the wide variety of papers, pens and inks, pencils, colored pencils, markers, crayons, pastels and oil pastels and scratch-board.
Prerequisites: G 1001 212, G 4921 350 or permission of instructor.
- G 4921 354
ILLUSTRATION III: PAINTING: MATERIALS AND TECHNIQUES 3.0
 The technical approaches, styles and materials employed in painting for illustration; opaque and transparent water color painting, painting with inks and dyes, acrylics both as a direct medium and through glazing. Emphasis on the expressive use of color, form, line, light source and shadow and composition as tools for problem solving in illustration.
Prerequisites: G 1001 212, G 4921 350, 352 or instructor's permission.
- G 4921 356
ILLUSTRATION IV: ADVANCED PROBLEMS 3.0
 The reading of manuscripts, development and visualization of concepts. The business aspects of illustration; working with art directors and interpreting client needs and the preparation of a professional portfolio. Independent assignments prepare the student for professional work.
Prerequisites: G 1001 212, G 4921 350, 352, 354 or instructor's permission.
- G 4921 363
ADVANCED PRINTMAKING I 3.0
 Consideration of printmaking media. Particular attention to the growth and development of art-making concepts as they relate to the printmaking processes.
- G 4921 364
ADVANCED PRINTMAKING II 3.0
 Continuation of G 4921 363.
Prerequisite: G 4921 363.

G 4921 400
ADVANCED PRINTMAKING III 3.0
Continuation of G 4921 364.
Prerequisite: G 4921 364.

G 4921 401
ADVANCED PRINTMAKING IV 3.0
Continuation of G 4921 400.
Prerequisite: G 4921 400.

G 4921 431
INDEPENDENT STUDY: PRINTMAKING I 3.0
Topics for investigation selected with approval of instructor.

G 4921 432
INDEPENDENT STUDY: PRINTMAKING II 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: G 4921 431.

G 4921 433
INDEPENDENT STUDY: PRINTMAKING III 3.0
Topic for investigation selected with approval of instructor.
Prerequisite: G 4921 432.

G 4921 434
INDEPENDENT STUDY: PRINTMAKING IV 3.0
Topic for investigation selected with approval of instructor.
Prerequisite: G 4921 433.

G 4921 470
INDEPENDENT STUDY IN MULTI-IMAGE MEDIA 4.0
Use of media for presentation, exhibition or publication. Topics selected with the approval of the instructor.

G 4922 223
SHELTER FORM AS ART I 3.0
The concepts and forms of shelter; the ways in which men and animals have housed themselves from primitive times to the present; interior spatial qualities and utilization and the role of adornment, decoration and exterior configurations. Projects include model making.

G 4922 235
RITUAL EVENT AND PERFORMANCE I 3.0
Exploration of how man's universal and long standing impulses are made into coherent ritual events or performances; the total art act which employs time, space and the group creative process.

G 4922 479
INDEPENDENT INVESTIGATION IN URBAN CULTURAL DEVELOPMENT 2.0-8.0
Topics for investigation selected with the approval of the instructor.

G 4922 485
RITUAL EVENT AND PERFORMANCE II 3.0
Advanced research projects and productions in designing rituals, events and performances; and the ability to articulate understandings and concepts both in the written and spoken word. May be repeated for credit.
Prerequisite: G 4922 235.

G 4922 490
ART IN THE COMMUNITY 3.0
From a community based classroom, work is done on specific problems in cultural development. Emphasis on the immediate locality and on questions of integration and communication with the residents and the evolution of a relevant community esthetic.
Prerequisite: G 4922 351, instructor's permission.

French

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Madeleine Sergent

The department of French provides courses that develop linguistic skills, literary appreciation, and an understanding of the French people and their culture.

French majors may choose the translation-interpretation concentration to enhance their linguistic skills or to enter careers related to international organizations. They may also take related business courses.

Students may specialize in teacher education and prepare for careers as secondary school teachers. Students may also select a minor or a second teaching field in French.

It is highly recommended that majors spend a year, a semester, or a summer studying in a French speaking country. This study should be planned for the junior year.

French Major

Required Courses (Liberal Arts)

	Semester Hours
1102 150, 151 French Stylistics and Composition I, II	3 each
1102 155 French Phonetics	2
1102 250 Advanced Composition	3
1102 220 Explication de Texte	3
1102 201 17th Century French Literature (Prerequisite: 1102 220)	3
1102 210 18th Century French Literature (Prerequisite: 1102 220)	3
1102 301 19th Century French Literature (Prerequisite: 1102 220)	3
1102 310 20th Century French Literature (Prerequisite: 1102 220)	3
1102 360 French Perspectives (Prerequisite: 1102 220)	3

Electives (Major)

Select 8 semester hours from the appropriate list to be obtained from the department 8

Teacher Education

1102 150, 151 French Stylistics and Composition I, II	3 each
1102 155 French Phonetics	2
1102 250 Advanced Composition	3
1102 220 Explication de Texte	3
1102 310 20th Century French Literature (Prerequisite: 1102 220)	3
1102 360 French Perspectives	3
1102 410 Advanced French Grammar	3
Select two	
1102 201 17th Century French Literature (Prerequisite: 1102 220)	3
1102 210 18th Century French Literature (Prerequisite: 1102 220)	3

1102 301	19th Century French Literature (Prerequisite: 1102 220)	3
----------	--	---

Electives (Major)

Select 8 semester hours from the appropriate list to be obtained from the department 8
 1505 210 Introduction to General Linguistics 3
 (Recommended for all French majors.)

Concentration Programs Within the Major

Translation

Required Courses

	Semester Hours
1102 150, 151 French Stylistics and Composition I, II	3 each
1102 155 French Phonetics	2
1102 160 French Civilization: 19th and 20th Centuries	3
1102 220 Explication de Texte	3
1102 250 Advanced Composition	3
1102 310 20th Century French Literature	3
1102 350 Translation I	3
1102 351 Translation II	3
1102 360 French Perspectives	3
1102 365 Introduction to Consecutive and Simultaneous Interpreting or	3
1102 452 Translation III	3
1102 410 Advanced French Grammar	3

Electives (Major)

Select 6 semester hours from the appropriate list to be obtained from the department 6

French Minor

Required Courses (Liberal Arts Emphasis)

1102 150, 151 French Stylistics and Composition I, II	3 each
1102 155 French Phonetics	2
1102 220 Explication de Texte	3

Electives (Major)

French Literature and Civilization	7
--	---

Required Courses (Business Emphasis)

	Semester Hours
1102 121, 132 Intermediate French I, II	3 each
1102 150, 151 French Stylistics and Composition I, II	3 each
1102 135 Commercial French I	3
1102 165 Spoken Language Practice	3
1102 145 Introduction to French Culture	3

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. In addition, French majors must have a "B" average in French, take the Teacher Education courses under the French Major Requirements, and 1102 419 The Teaching of French in Secondary Schools.

Second Teaching Field in French

Required Courses

1102 150, 151 French Stylistics and Composition I, II	3 each
1102 155 French Phonetics	2
1102 220 Explication de Texte	3
1102 250 Advanced Composition	3
1102 165 Spoken Language Practice	3
1102 410 Advanced French Grammar	3

Electives

Select 6 semester hours from the appropriate list to be obtained from the department 6

NOTE: If a student has not taken a teaching methods course in a foreign language it is necessary to take O 1102 419, The Teaching of French in Secondary Schools.

Courses of Instruction

O 1102 100
 FRENCH READING COURSE 3.0
 Learning to read French as a tool for research (a service course for M.A. candidates in English; successful completion of this course will satisfy the language requirement).

O 1102 101
 BEGINNING FRENCH I 3.0
 For students starting French in college. Fundamental training in the speaking, reading and writing of simple French. Laboratory work available.

O 1102 112
 BEGINNING FRENCH II 3.0
 For students starting French in college. Fundamental training in the speaking, reading and writing of simple French. Laboratory work available.
Prerequisite: O 1102 101 or equivalent.

O 1102 121
 INTERMEDIATE FRENCH I 3.0
 Developing of listening, reading and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available.
Prerequisite: O 1102 112 or equivalent.

O 1102 132
 INTERMEDIATE FRENCH II 3.0
 Developing of listening, reading, and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available.
Prerequisites: O 1102 121 or equivalent.

O 1102 135, 136
 COMMERCIAL FRENCH I, II 3.0 each
 A two-semester sequential course, conducted entirely in French, emphasizing the development of the specialized language skills of commercial French, through the study of the French economy-commercial professions and enterprises.
Prerequisite: O 1102 151 or equivalent.

O 1102 145
 INTRODUCTION TO FRENCH CULTURE 3.0
 Various aspects of contemporary France such as politics, education, social and artistic movements.
Prerequisite: O 1102 121.

O 1102 146			
READINGS IN FRENCH LITERATURE	3.0		
Representative selections from major works and authors providing a general knowledge of French literature and socio-cultural movements through the ages.			
<i>Prerequisite: O 1102 121.</i>			
O 1102 150			
FRENCH STYLISTICS AND COMPOSITION I	3.0		
Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program.			
<i>Prerequisite: O 1102 132 or equivalent.</i>			
O 1102 151			
FRENCH STYLISTICS AND COMPOSITION II	3.0		
Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program.			
<i>Prerequisite: O 1102 150.</i>			
O 1102 155			
FRENCH PHONETICS	2.0		
Weekly transcriptions, problems of articulation, rhythm, accentuation and intonation. Intensive language laboratory work.			
O 1102 160			
FRENCH CIVILIZATION: 19TH AND 20TH CENTURIES	3.0		
Various aspects of the material, intellectual, artistic, and spiritual life of France.			
O 1102 165			
SPOKEN LANGUAGE PRACTICE	3.0		
Intensive conversation with organized discussions on subjects of special interest.			
O 1102 201			
SEVENTEENTH CENTURY FRENCH LITERATURE	3.0		
The most representative authors of the century.			
O 1102 202			
SEVENTEENTH CENTURY FRENCH THEATER	2.0		
Plays of Corneille, Racine and Moliere.			
O 1102 210			
EIGHTEENTH CENTURY FRENCH LITERATURE	3.0		
Main writings of the age of enlightenment.			
O 1102 211			
EIGHTEENTH CENTURY THEATER	2.0		
Comedy, tragedy and the origin of the drama.			
O 1102 220			
EXPLICATION DE TEXTE	3.0		
Improvement of reading skills and literary perception through the technique of the Explication de Texte, using examples from a wide variety of periods and genres.			
<i>Prerequisite: O 1102 151.</i>			
O 1102 250			
ADVANCED COMPOSITION	2.0		
A review of advanced grammar through intensive written and oral practice.			
O 1102 260			
ORIGINS OF FRENCH CIVILIZATION	3.0		
French history and cultural development from the Middle Ages to the Revolution.			
O 1102 265			
ADVANCED SPOKEN LANGUAGE PRACTICE	3.0		
Intensive conversation on an advanced level on selected and varied topics.			
O 1102 301			
NINETEENTH CENTURY FRENCH LITERATURE	3.0		
Principal literary currents from romanticism to symbolism.			
O 1102 310			
TWENTIETH CENTURY FRENCH LITERATURE	3.0		
Representative works of contemporary theatre and the novel.			
O 1102 311			
CONTEMPORARY FRENCH DRAMA	2.0		
Theatre from the beginning of the century to the present.			
O 1102 330			
SURVEY OF MEDIEVAL LITERATURE	3.0		
Development of the principal genres: Chanson de Geste, courtly romance, drama and poetry.			
O 1102 335			
THE FRENCH RENAISSANCE	3.0		
Selected works of Rabelais, Montaigne and the poets of the pleiade.			
O 1102 340			
SURVEY OF FRENCH POETRY	2.0		
Development of principal poetic movements with emphasis on the 19th and 20th centuries.			
O 1102 345			
DEVELOPMENT OF FRENCH NOVEL TO 1900	3.0		
Evolution of fiction from the feminist writings of Mme. de la Fayette and Diderot's literature of social involvement to the present.			
O 1102 349			
FRANCOPHONE LITERATURE	3.0		
Literature of French expression outside continental France.			
O 1102 350			
TRANSLATION I	3.0		
Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.			
O 1102 351			
TRANSLATION II	3.0		
Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.			
<i>Prerequisite: O 1102 350.</i>			
O 1102 360			
FRENCH PERSPECTIVES	3.0		
A French viewpoint on contemporary problems emphasizing interrelationships of political, social and economic fields.			
O 1102 365			
INTRODUCTION TO CONSECUTIVE AND SIMULTANEOUS INTERPRETING	3.0		
The field of cross-cultural communications (with emphasis on the French-speaking world) and practice in the techniques of simultaneous and consecutive interpreting, French-English, English-French.			
<i>Prerequisites: O 1102 350, O 1102 351.</i>			
O 1102 367, 368, 369			
SEMINARS	3.0 each		
Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.			

O 1102 375
FRENCH STUDY ABROAD Credit by evaluation
 Study at a university in a French speaking country to gain first-hand knowledge of the historical, social, economic, and cultural life of the country. Permission of the department chairperson.

O 1102 410
ADVANCED FRENCH GRAMMAR 3.0
 A review of the most important structural features of French, with special emphasis on areas of interference with English structure.

O 1102 419
THE TEACHING OF FRENCH IN SECONDARY SCHOOLS 3.0
 Lesson planning, evaluation of techniques, demonstration of teaching procedures, teaching aids, exploration of direct method and audio-lingual approaches.

O 1102 452
TRANSLATION III 3.0
 Translation of articles in specific fields of interest to improve translation skills.
Prerequisites: O 1102 350, O 1102 351.

O 1102
SEMINAR 3.0
 Selected topic to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

O 1102 472
FRENCH LANGUAGE WORKSHOP 2.0
 A thorough foundation in French at the level required for successful graduate studies.

O 1102 478
INDEPENDENT STUDY 1.0-3.0
 Directed independent study and research in French language and literature.

K 4903 155
INTRODUCTION TO FRENCH LITERATURE: MIDDLE AGES TO 18TH CENTURY 3.0
 Study of major works and literary social movements of that period. Taught in English.

K 4903 156
INTRODUCTION TO FRENCH LITERATURE 19TH AND 20TH CENTURIES 3.0
 Study of major works and trends of that period. Taught in English.

K 4903 186
MYTHS AND IMAGES OF WOMEN IN FRENCH LITERATURE 3.0
 Literary treatments of female characters in representative works from the middle ages to the present. Taught in English.

K 4903 250
FRENCH PERSPECTIVES 3.0
 Interplay of contemporary political, economic, social and artistic events in France and the U.S. Taught in English.

K 4903 286
FRENCH FILM 3.0
 Development of film art with special emphasis on contemporary period. Taught in English.

K 4903 287
MODERN FRENCH FICTION 3.0
 Major novelistic modes from the writer-artist conceptions of Gide, through the committed literature of Sartre and Camus, to Robbe-Grillet's new novel of the 50's.

K 4903 288
MUSIC AND ART IN FRENCH CIVILIZATION 3.0
 Composers from the middle ages (Perotin) to modern times (Boulez) in relation to their social and cultural backgrounds.

K 4903 386
DEVELOPMENT OF FRENCH NOVEL TO 1900 3.0
 Evolution of fiction from the feminist writings of Mme. De La Fayette and Diderot's literature of social involvement to the present. Taught in English.

K 4903 390
CONTEMPORARY FRENCH LITERATURE 3.0
 Contemporary trends in French writing as revealed in selected works from various genres.

German and Slavic

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: John V. Moore

A command of the German or Russian language with an understanding of the respective literature and culture is the object of the courses offered by the department. The German program offers a liberal arts major, a teacher education major plus a second teaching field and a liberal arts minor. The Russian program offers a liberal arts minor and a second teaching field, as well as required courses for the Russian Area Studies minor.

Because it is important to learn to speak a language in the native setting, German majors are encouraged to study in a German-speaking country. With departmental approval, academic credit can be given for this experience.

German Major

Required Courses

	Semester Hours
1103 141 Review of Fundamental Grammar	3
1103 151, 152 Advanced German I, II	3 each
1103 251, 252 Introduction to German Literature I, II	3 each
1103 351, 352 German Civilization I, II	3 each

Electives (Major)

Select 12 semester hours from the appropriate list to be obtained from the department 12

German Minor

Required Courses

	Semester Hours
1103 141 Review of Fundamental Grammar	3
1103 151, 152 Advanced German I, II	3 each

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Russian Minor*

Required Courses

1106 101 and 112 Beginning Russian I, II	6
1106 121 and 132 Intermediate Russian I, II	6
1106 141 and 152 Advanced Russian I, II	6

Russian Area Studies Minor

Required Courses

1106 101, 112 Beginning Russian I, II	6
Soviet History or Political Science (see department entries)	6

Electives (Departmental)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Electives (Interdepartmental)

The Russian Area Studies minor is interdisciplinary, and appropriate elective courses may be selected from the Departments of History, Political Science, Geography, and Economics, as well as from offerings in Russian language, literature and civilization, with permission of the program coordinator.

*Other courses may be selected under certain circumstances with departmental approval.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. The following are the departmental course requirements for the program:

	Semester Hours
1505 210 Introduction to General Linguistics	3
1103 410 German Grammar: Applied Linguistics	3
1103 419 Teaching German in Secondary Schools	3

Electives (Not required but recommended)

1103 142 Practice in Written German	3
1103 209 Phonetics and Phonology	3

Second Teaching Field in German

1103 141 Review of Fundamental Grammar	3
1103 151, 152 Advanced German I, II	3 each
1103 251, 252 Introduction to German Literature I, II	3 each
3 additional courses in German (1103) beyond intermediate level	9

Second Teaching Field in Russian*

1106 101 and 112 Beginning Russian I, II	6
1106 121 and 132 Intermediate Russian I, II	6

1106 141 and 152 Advanced Russian I, II	6
4903 293 Russian Culture and Civilization	3
4903 294 Russian Prose and Drama	3

*Under certain circumstances and with permission of the department chairperson, other selected courses may be counted.

Courses of Instruction

O 1103 101
BEGINNING GERMAN I 3.0
For students without previous instruction in German. Emphasis on speaking, with practice in reading and writing simple German. Laboratory work optional.

O 1103 103
BEGINNING GERMAN I (READING) 3.0
For students without previous instruction in German. Emphasis on acquiring a reading knowledge of the language. Suggested as preparation for graduate school language requirements or for careers in which reading knowledge of German is needed.

O 1103 110
BUSINESS GERMAN 3.0
The student will gain a basic insight into the culture, society and language of commerce and industry of the German-speaking countries. Includes study of the foreign cultural environment together with essential linguistic background. No prior knowledge of German required.

O 1103 112
BEGINNING GERMAN II 3.0
Emphasis on speaking, with practice in reading and writing simple German. Laboratory work optional.
Prerequisite: O 1103 101 or equivalent.

O 1103 114
BEGINNING GERMAN II (READING) 3.0
Emphasis on acquiring a reading knowledge of the language. Suggested as preparation for graduate school language requirements or for careers in which reading knowledge of German is needed.
Prerequisite: O 1103 103 or equivalent.

O 1103 121
INTERMEDIATE GERMAN I 3.0
Continuation of German 101 and 112. Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work optional.
Prerequisite: O 1103 112 or equivalent.

O 1103 123
INTERMEDIATE GERMAN I (READING) 3.0
Continuation of German 103 and 114. Open to students who have acquired an elementary reading knowledge of German elsewhere. More difficult German reading in various fields.
Prerequisite: O 1103 114 or equivalent.

O 1103 132
INTERMEDIATE GERMAN II 3.0
Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work optional.
Prerequisite: O 1103 121 or equivalent.

O 1103 134
INTERMEDIATE GERMAN II (READING) 3.0
Open to students who have acquired an elementary reading knowledge of German elsewhere. More difficult German reading in various fields.
Prerequisite: O 1103 123 or equivalent.

- O 1103 141
REVIEW OF FUNDAMENTAL GRAMMAR 3.0
Oral and written practice for better control of language structure. Required for freshman majors, who are given admission preference.
Prerequisites: O 1103 132, 134 or equivalent.
- O 1103 142
PRACTICE IN WRITTEN GERMAN 3.0
Increasingly difficult written assignments to develop command of idiomatic German. Strongly recommended for majors desiring teacher certification.
Prerequisite: O 1103 141.
- O 1103 151
ADVANCED GERMAN I 3.0
Continuation of Intermediate German on a more advanced level. Students must follow class instruction in German, speak and write simple idiomatic German and read and discuss increasingly difficult assignments in literary German, particularly in the second semester. Required for freshman majors, who are given admission preference.
Prerequisites: O 1103 132, 134 or equivalent.
- O 1103 152
ADVANCED GERMAN II 3.0
Students must follow class instruction in German, speak and write simple idiomatic German and read and discuss increasingly difficult assignments in literary German, particularly in the second semester. Required for freshman majors, who are given admission preference.
Prerequisite: O 1103 151.
- O 1103 209
PHONETICS AND PHONOLOGY 3.0
Application of phonetic science to the acquiring and teaching of good pronunciation; the international phonetic alphabet; problems of articulation; rhythm, accentuation and intonation. Strongly recommended for majors desiring teacher certification.
- O 1103 251, 252
INTRODUCTION TO GERMAN LITERATURE I, II 3.0 each
Standard works of German literature from the classical period to the present; methods of literary interpretation; developmental approach to the principal epochs of German literature. Required of sophomore majors, who are given preference.
Prerequisite for O 1103 252: O 1103 251.
- O 1103 309
PRACTICE IN SPOKEN GERMAN 3.0
Intensive conversation practice to improve fluency and increase active vocabulary.
- O 1103 310
ADVANCED COMPOSITION 3.0
Intensive written exercises to improve command of the German language; some oral work.
- O 1103 315
TRANSLATION I 3.0
Intensive practice in the skills of translating professional texts from German into English and from English into German.
Prerequisite: Instructor's permission.
- O 1103 316
TRANSLATION II 3.0
Continuation of 315 with more intensive exposure to the skills of translation. Recommended for qualified students interested in a possible future career as bilingual secretary, translator of commercial texts, etc.
Prerequisite: O 1103 315, instructor's permission.
- O 1103 317
TRANSLATION III 3.0
Continuation of 316 with conclusion of training in international business translation. Development of increasingly sophisticated skills required to translate professionally in a variety of fields. Emphasis on translation from German into English.
Prerequisite: O 1103 316, instructor's permission.
- O 1103 318
TRANSLATION IV 3.0
Continuation of 317 with increasingly technical and specialized texts translated into the student's native language. Two individual projects in two areas of special interest.
Prerequisite: O 1103 317, instructor's permission.
- O 1103 320
DEVELOPMENT OF THE GERMAN LANGUAGE 3.0
Background, growth, and structure of the German language from the Indo-European and Germanic beginnings to the language as spoken today; historical explanation of modern German grammar.
- O 1103 341
GERMAN LITERATURE FROM THE ORIGINS TO THE REFORMATION 3.0
Works representative of the Old High German, Middle High German, and late medieval periods read in modern German version. The most important genres and trends, ending with excerpts from Luther's works.
- O 1103 342
GERMAN LITERATURE FROM THE 16TH TO THE 18TH CENTURIES 3.0
Representative works illustrating the trends preceding the classical period.
- O 1103 351
GERMAN CIVILIZATION I 3.0
Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary problems of divided Germany; re-unification, the respective political and educational systems and cultural trends. Required of junior majors, who are given admission preference.
- O 1103 352
GERMAN CIVILIZATION II 3.0
Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary problems of divided Germany; re-unification, the respective political and educational systems and cultural trends. Required of junior majors, who are given admission preference.
Prerequisite: O 1103 351.
- O 1103 360
MODERN GERMAN PROSE FICTION 3.0
Reading and discussion of great German novels and novellas of the 19th and 20th centuries; the personal and stylistic characteristics of the authors; the literary periods they represent.
- O 1103 362
DEVELOPMENT OF GERMAN POETRY 3.0
The poetical movements, authors and genres since 1600; the evolution of forms, such as the sonnet and the ode; analysis and interpretation of poetry.
- O 1103 364
GERMAN DRAMA OF THE 19TH AND 20TH CENTURIES 3.0
Reading and discussion of outstanding plays and dramatists from Goethe's death to the present; interpretation and theories of dramas.

- O 1103 375**
STUDY ABROAD Credit by evaluation
 An opportunity to gain first-hand knowledge of the historical, social, and economic and cultural life of German-speaking Europe. Semester hours will be granted by evaluation.
- O 1103 380**
INDEPENDENT STUDY IN GERMAN (JUNIOR LEVEL) 3.0
 Directed individual study and research in German for junior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest.
- O 1103 381**
INDEPENDENT STUDY IN GERMAN (JUNIOR LEVEL) 3.0
 Directed individual study and research in German for junior majors with the desire, ability, and responsibility necessary to pursue a special scholarly interest.
- O 1103 410**
GERMAN GRAMMAR: APPLIED LINGUISTICS 3.0
 A review of the most important structural features of German; areas of interference with English structure which present the greatest difficulties to the American student of German. Required for majors desiring teacher certification.
- O 1103 419**
TEACHING GERMAN IN SECONDARY SCHOOLS 3.0
 The aims, objectives and methods used in teaching German in secondary schools; textbooks, supplementary teaching materials, language laboratory, tests, etc. Required for majors desiring teacher certification.
- O 1103 441**
THE AGE OF GOETHE 3.0
 The life and works of Goethe; his continuing importance; reading from all important genres in which Goethe wrote.
- O 1103 442**
THE AGE OF SCHILLER 3.0
 The life and works of Schiller; his continuing importance; reading from the dramas, essays and poems.
- O 1103 460**
SENIOR SEMINAR 3.0
 Study in depth of significant figures not adequately treated elsewhere in the departmental offerings (Holderlin, Kleist, etc.) or detailed study of special literary groups (German symbolist poets, etc.). Each student produces a research paper.
- O 1103 480, 481**
INDEPENDENT STUDY IN GERMAN (SENIOR LEVEL) 3.0 each
 Directed individual study and research in German for senior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest.
- O 1106 101, 112**
BEGINNING RUSSIAN I, II 3.0 each
 The fundamentals of grammar and pronunciation. Lab work.
Prerequisite for O 1106 112: O 1106 101 or equivalent.
- O 1106 121, 132**
INTERMEDIATE RUSSIAN I, II 3.0 each
 Continuation of Russian 101 and 112. Open to students who have acquired an elementary knowledge of Russian elsewhere. Detailed review of Russian grammar and pronunciation, more advanced conversation. Lab work.
Prerequisite for O 1106 121: O 1106 101 or equivalent.
Prerequisite for O 1106 132: O 1106 121 or equivalent.
- O 1106 141, 152**
ADVANCED RUSSIAN I, II 3.0 each
 Intensive study of Russian grammar, composition and translation, with assigned research in areas of special interest to individual students. Laboratory work.
Prerequisite for O 1106 141: O 1106 132 or equivalent.
Prerequisite for O 1106 152: O 1106 141 or equivalent.
- O 1106 478**
INDEPENDENT STUDY IN RUSSIAN 1.0-3.0
 Directed individual study and research in Russian for special students.
Prerequisite: Permission of instructor and department chairperson.
- K 4903 291**
SCANDINAVIAN EXISTENTIALISM: THE LITERARY TRADITION 3.0
 A study of the dominant tradition in Scandinavian literature that emerged in the wake of Kierkegaard's penetrating critique of German Romanticism. This course will consider the tension between fantasy and reality that informs the works of such writers as H. C. Andersen, J. P. Jacobsen, Ibsen, Strindberg, Hamsun, Lagerlof, Isak Dinesen, M. A. Hansen, Par Lagerkvist, Eyvind Johnson, and Harry Martinson. (Taught in English.)
- K 4903 292**
GERMAN LITERATURE 1890-PRESENT 3.0
 The principle movements discernible in German literature since the end of the 19th century. Works representative of important authors and basic genres and trends. No knowledge of German is required. (Taught in English.)
- K 4903 293**
RUSSIAN CULTURE AND CIVILIZATION 3.0
 The history of Russian Literature and culture. Outstanding aspects of Russian civilization. No knowledge of Russian is required. (Taught in English.)
- K 4903 294**
RUSSIAN PROSE AND DRAMA 3.0
 Russian prose and drama from the 18th century to the present day. Representative works of Gogol, Turgenev, Dostoevski, Tolstoi and Gorki. No knowledge of Russian is required. (Taught in English.)
- K 4903 295**
GERMAN EXPRESSIONISM 3.0
 Various aspects of German expressionism. Encompassing roughly the period between the two world wars; the political and social climate of the Weimar republic; literature, painting, sculpture, and music and the film of that era; defining expressionism as a specific historical period as well as a perennial stylistic device. (Taught in English.)
- K 4903 296**
PUSHKIN 3.0
 A study of the life and writings of Alexander Pushkin. Biographical material, cultural and historical perspectives, as well as readings in English translation from Pushkin's prose and poetry. No knowledge of Russian is required. (Taught in English.)
- K 4903 392**
THE MODERN GERMAN NOVEL 3.0
 Reading and discussion of selected novels by great 20th century authors who wrote in German: Thomas Mann, Franz Kafka, Hermann Hesse, etc. These works as expressions of the ages they represent. No knowledge of German is required. (Taught in English.)
- K 4903 395**
THE GERMAN "LIED" 3.0
 An interdisciplinary course tracing the German art song, setting up a procedure for the analysis of this mixed art form, evaluating individual efforts by comparing different musical settings of the same poem. Neither knowledge of German or musical sophistication is necessary. (Taught in English.)

Health Professions

SCHOOL OF PROFESSIONAL STUDIES

Chairperson: *Harry H. Hoitsma*

The health professions are growing. Whether already certified in an allied health specialty and seeking a chance to move into management, or looking for a career as a health educator, the department offers courses to prepare students for emerging opportunities in selected aspects of the health field.

The Bachelor of Science degree in health education includes preparation for community health positions and the necessary professional courses for a teaching certificate. The Bachelor of Science in allied health services is designed for continuing the education of those already certified in one of the many allied health specializations. Here the course work develops leadership skills in management and supervision both at Montclair State and other cooperating institutions depending on the individual need.

Health Education Major

Required Courses

	Semester Hours
0837 207 Safety, Accidents and Emergency Care	3
0837 210 Consumer Health	3
0837 220 Mental Health	3
0837 240 Foundations of Environmental Health	3
0837 290 Human Sexuality	3
0837 213 Perspectives on Drugs	3
0837 315 Community Health	3
1306 182 Nutrition	3
0401 254 Applied Microbiology	3
0837 404 Tests and Measurements in Health Education	3
0837 411 School Health and Community Services	3
0837 330 Foundations of Health Education	3

Collateral Courses

0401 240, 241 Mammalian Anatomy and Physiology I, II	6
1905 107, 108 College Chemistry I, II	4
1905 109, 110 College Chemistry Lab I, II	2

Electives

Consult with departmental advisor in determination and selection of electives 0-12

Teacher Certification

Health Education, grades K-12

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. In addition, the course 0837 401 The Teaching of Health must be satisfactorily completed.

Professional Sequence

Community Health Services Concentration

0837 245 Observation of Health Agencies	2
0837 350 Field Study in Health	6
0837 460 Systems of Health Services Delivery	3
Consult with academic advisor in selection of appropriate coursework chosen from following areas:	
Social and Behavioral Sciences	6
Mathematics and Sciences	6

Allied Health Services Major

Required Courses

	Semester Hours
0837 315 Community Health	3
0837 455 Core Concepts in the Delivery of Health Care	3
0837 460 Systems of Health Services Delivery	3
0506 310 The Management Process	3
0506 315 Organizational Behavior	3
0506 316 Human Resource Management	3
or	
0506 431 Middle and First Line Management	3
0502 201 Fundamentals of Accounting I	3
or	
0502 200 Accounting for Non Business Majors	3
1701 109 Statistics	3
0701 108 Computers and Programming	3
or	
0838 273 Introduction to Business Data Processing	3

Collateral Courses

2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3

Electives (Departmental)

Select 14 semester hours from the appropriate list to be obtained from the department 14

Electives (General)

Select 11 semester hours from the appropriate list to be obtained from the department 11

Technical Specialty in Allied Health

This must be completed at an academically accredited institution prior to transfer to Montclair State College.

Physical Education and Health Major (Dual Certification)

The department offers a component in the Physical Education and Health major provided in conjunction with the department of Physical Education, Recreation and Leisure Studies. Satisfactory completion of this program leads to eligibility for a single New Jersey certificate in Physical Education and Health. The Health Education component in this program is as follows:

Required Courses

	Semester Hours
0837 401 Teaching of Health	3
0837 290 Human Sexuality	3
0837 411 School Health and Community Services	3
0837 213 Perspectives on Drugs	3
Select One	
0837 210 Consumer Health	3
0837 220 Mental Health	3

0837 240	Foundations of Environmental Health	3
Select Two		
0837 307	The Study of Human Diseases	3
0837 315	Community Health	3
0837 101	Health for Personal Living	3
is required of all Physical Education majors.		

Physical Education requirements in this program are described in the department of Physical Education, Recreation and Leisure Studies section of this catalog.

Courses of Instruction

50837 101 HEALTH FOR PERSONAL LIVING 3.0

Examines health as a variable entity having physiological, psychological and environmental dimensions. Employs an individualized, participatory approach that includes: assessing one's own health status and behavior, increasing competencies in making health related decisions, eliciting health promoting behaviors and interpreting existing or proposed social actions that ultimately affect personal, family and community health.

50837 207 SAFETY, ACCIDENTS AND EMERGENCY CARE 3.0

Provides for study of major safety areas including transportation, public safety, industrial and home safety. Emergency health care, first aid treatment, and preventive measures are considered in the context of individual, agency and institutional responsibilities.

50837 210 CONSUMER HEALTH 3.0

Interpretation of individual economic activity as it relates to health service and health products. Includes analysis of factors influencing consumer health attitudes and behavior.

50837 213 PERSPECTIVES ON DRUGS 3.0

Provides for the study of licit and illicit drug use in contemporary society from the perspective of selected biomedical and psychosocial disciplines. Examines the effects of drugs on the individual and society in the context of changing social conditions and technological developments. Analyzes complex nature of the drug problem, rehabilitative and preventive measures, and tentative solutions to this important aspect of human existence.

50837 220 MENTAL HEALTH 3.0

Provides for the study of human emotional adjustment throughout life from bio-medical and psychosocial perspectives. The factors that foster the development of emotional and mental well-being and the forces that contribute to the breakdown of human adjustment capabilities are identified and analyzed in light of research and clinical literature. Special attention is given to the strategies for the prevention of mental disorders and promotion of mental health.

50837 232 EMERGENCY HEALTH CARE 2.0

Considers the nature, causes and treatment of emergency health problems (accident, heart failure and heart attack, drug overdose, etc.), surveys community emergency services and provides insight into the scientific foundations of emergency health problems and treatment procedures.

50837 240 FOUNDATIONS OF ENVIRONMENTAL HEALTH 3.0

Prepares student to make informed decisions concerning the avoidance or elimination of disease-causing environmental exposures by providing an understanding of the scientific principles by which these exposures are identified, measured, and judged as to their acceptability.

50837 245 OBSERVATION OF HEALTH AGENCIES 2.0-3.0

An introductory field course designed to acquaint students with a wide range of school and community health programs and professional specializations in health. Provides a series of field visits and short-term placements under professional supervision. Open to all.

Prerequisites: 5 0837 101, instructor's written permission prior to registration.

50837 290 HUMAN SEXUALITY 3.0

Provides for the study of human sexuality from the various biological/physiological, sociological, and psychological perspectives, and examines individual and community attitudes concerning sexual behavior. Includes such contemporary issues as abortion, sterilization, homosexuality, artificial insemination and gender selection. Acquaints students with criteria of the social environment which provide their opportunities and constraints.

50837 300 CURRENT PROBLEMS IN HEALTH 3.0

Seminar-type course providing intensive study of selected contemporary health problems. Identification and interpretation of current health issues from the standpoint of recent scientific and societal developments.

50837 307 THE STUDY OF HUMAN DISEASES 3.0

Provides a comprehensive study of diseases, their etiology, pathophysiology, diagnosis, prognosis, and treatment. Includes a review of causation theories and incidence patterns and focuses on the major degenerative, neoplastic, metabolic, immunologic, and infectious diseases. Attention is given to prevention and control measures with an emphasis on the role of selected health/medical resources in disease management.

50837 315 COMMUNITY HEALTH 3.0

A basic course focusing on major health problems currently affecting the local, state, national and international scenes and includes consideration of political, social and economic factors. Special attention is directed to the public health organizations and agencies dealing with these health problems.

Prerequisite: Course in similar field.

50837 330 FOUNDATIONS OF HEALTH EDUCATION 3.0

Provides a comprehensive study of the scientific, social, behavioral, educational and legal foundations of health education. Traces the evolution and interprets the impact of related professions on school, community, and allied health education.

50837 350 FIELD STUDY IN HEALTH 2.0-6.0

Selected experiences in community health work through arrangements with various kinds of health agencies. Major projects developed under supervision of a faculty member and a qualified person in the health professions agency.

Prerequisites: Instructor's written permission prior to registration, course in similar field.

50837 401 THE TEACHING OF HEALTH 3.0

Traces historical development of health instruction, examines characteristics of health learners, and compares different types of health education programs. Requires demonstration of health education planning, teaching and evaluation skills.

50837 404 TESTS AND MEASUREMENTS IN HEALTH EDUCATION 3.0

Statistical procedures and analysis of existing evaluation instruments. Measurements in cognitive, affective and psychomotor domains.

50837411
SCHOOL HEALTH AND COMMUNITY SERVICES 3.0
Provides for an in-depth understanding of the school health program and community services. Includes study of (A) school and health services; (B) healthful school environment; and (C) health education and community health services.

50837430
HEALTH COUNSELING 3.0
Course will focus on factors influencing health and illness behavior with implications for behavioral intervention in health care. Included are the intervention strategies of prevention, crisis intervention, postvention and compliance, and the intervention techniques of assessment, interviewing, counseling skills and small group dynamics.

50837440
HEALTH ASPECTS OF AGING 3.0
This course focuses upon changes in aspects of health during the middle and later years of life. Included would be changes in anatomy and physiology, nutritional requirements, sensoria and those phenomena associated with aging and sexuality. Common causes of morbidity and mortality will be explored as they relate to the aged. Attention will be given to the psychosocial and economic needs of the elderly as well as those aspects of gerontology which deal with legislation and community organization.

50837445
PERSPECTIVES ON DEATH 3.0
Exploration of the personal and social meanings of death. Formulation of realistic plans for living, through education about death.
Prerequisites: 50837200 or instructor's permission.

50837455
CORE CONCEPTS IN THE DELIVERY OF HEALTH CARE 3.0
Interdisciplinary analysis of the patient care and supporting functions of health practitioners in the provision of health care, emphasizing underlying medical and human services principles and the roles of allied health personnel.
Prerequisites: Six months of occupational experience in an allied health specialty. Course in similar field.

50837460
SYSTEMS OF HEALTH SERVICES DELIVERY 3.0
The organization, administration and functions of health services in the United States and other major nations; the social and professional policies which determine their scope and nature. Principal methods currently employed in the U.S. for analysis and evaluation of health care systems. Offers opportunity to students to relate these general understandings to those segments of the health services system of particular professional interest to themselves.
Prerequisite: Course in similar field or instructor's permission.

50837470
PATIENT EDUCATION 3.0
Provides for an in-depth study of comprehensive patient education. Topics include historical development, roles and responsibilities of patient education, program planning and development, and evaluation of patient education programs. Majors only or instructor's permission.

History

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Richard Barker

The study of history, in addition to being an important part of a broad liberal education, helps to prepare students for careers in teaching, law, government service, politics, journalism and creative writing, library science, business research, and positions with local, state or national archives, museums and historical societies or restorations agencies. The department offers specialized study mainly in American, European and Asian history. History majors may adapt their programs to meet certification requirements for teaching social studies in New Jersey secondary schools. A minor in history is also offered.

History Major

Required Courses

	Semester Hours
2205 200 The Study of History	3
Concentration in American, Asian, European or Latin American History	12-18
History electives in at least two areas other than the concentration. (African Civilization may be included)	12-18
Required Total	33

Teacher Certification (Social Studies)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. The course P 2201 401 Methods of Teaching Social Studies is the departmental requirement.

The social studies teacher is expected to have a broad understanding of the cultural and environmental factors which shape the individual and society. To meet the approved program for certification in social studies, course work is required in each of the following: anthropology, economics, geography, history, political science and sociology. A detailed description of the requirements is available in the office of the school counselor.

Courses of Instruction

P 2201 223
SIMULATION GAMES AND GLOBAL PROBLEMS 3.0
An innovative course utilizing both simulation games and books to inquire into the substantive problems of peace and justice, the ways and means of designing future change, and the uses of simulation techniques as a teaching/learning device.

- P 2201 401
METHODS OF TEACHING SOCIAL STUDIES 3.0
Presents recent trends in educational method in teaching the social studies. A program is presented containing the correlation of subject matter organization in socialized recitation, the teaching of current events, projects in citizenship, and the use of the project-problem as a method of teaching history and civics.
- P 2205 103
FOUNDATIONS OF WESTERN CIVILIZATION 3.0
Origins and development of western civilization to about 1350. Egyptian, Judaic, Greek, Roman, Islamic and Medieval European contributions.
- P 2205 104
INTRODUCTION TO HISTORICAL THINKING 3.0
History examined as a mode of inquiry. Emphasis on student experience working with historical materials, procedures and problems.
- P 2205 105
EMERGENCE OF EUROPEAN CIVILIZATION, 1500-1914 3.0
The emergence of Europe as a distinctive world civilization. The development of ideas, institutions and technologies from medieval times to World War I.
- P 2205 106
CONTEMPORARY EUROPE, 1914 TO THE PRESENT 3.0
European society in transition since World War I. The role of two world wars in shaping contemporary times.
- P 2205 108
INTRODUCTION TO AFRICAN CIVILIZATION 3.0
Pre-colonial African civilization and its eclipse under slavery and the colonial onslaught. Principal social, political and environmental systems of the period.
- P 2205 109
INTRODUCTION TO ISLAMIC CIVILIZATION 3.0
Examination of various institutions and value systems in Islam which characterize it as a major civilization. Important cultural developments as they are affected by the process of transition.
- P 2205 110
INTRODUCTION TO AMERICAN CIVILIZATION 3.0
The mainstreams of development in American civilization. Political, intellectual, social, economic and cultural forces and achievements which have made us distinctive.
- P 2205 111
CONTEMPORARY AMERICAN ISSUES IN HISTORICAL PERSPECTIVE 3.0
Examines contemporary issues in American society in historical perspective. Topics will vary from semester to semester in the light of changing problems confronting our society.
- P 2205 114
EARLY LATIN AMERICAN CIVILIZATION 3.0
The components of Latin American civilization. Considered are the geographical background and developments of the Mayan, Incan, and Aztec civilizations, the Spanish and Portuguese backgrounds and the wars of independence.
- P 2205 115
HISTORY OF PUERTO RICO 3.0
The history and culture of Puerto Rico and interaction with Spain, Latin America and the United States.
- P 2205 116
MODERN LATIN-AMERICAN CIVILIZATION 3.0
Major themes in Latin American history during the 19th and 20th centuries, with emphasis on the struggle for freedom, equality, and economic independence.
- P 2205 131
INTRODUCTION TO INDIAN CIVILIZATION 3.0
The early history of India, 3000 B.C. to 1000 A.D. Principal religions, political and literary works, and their insights into Indian social values and institutions.
- P 2205 132
INTRODUCTION TO CHINESE CIVILIZATION 3.0
The early history of China, 2000 B.C. to 1300 A.D. Principal social, political and meta-physical-philosophic works, corresponding values and institutions.
- P 2205 133
MODERN CHINESE CIVILIZATION 3.0
Modern China and Japan, 1600 to the present. Changes in values and mutual influence of East and West, studied through literary, philosophical, anthropological, historical and artistic works.
- P 2205 200
THE STUDY OF HISTORY 3.0
The nature of historical research and reasoning. Student experience in working with actual historical materials and procedures.
- P 2205 204
THE SECOND WORLD WAR 3.0
A study of the origins and course of World War II in Europe, Asia and the Pacific.
- P 2205 206
HISTORY OF AMERICAN BUSINESS 3.0
Provides historical background toward understanding the present role business plays in American society. Examines the role of the entrepreneur and business manager in the evolution of American business.
- P 2205 210
SELECTED TOPICS IN AMERICAN HISTORY TO 1876 3.0
Issues and problems in the development of the American nation from discovery and exploration to the Civil War and Reconstruction.
- P 2205 211
SELECTED TOPICS IN AMERICAN HISTORY SINCE 1876 3.0
Issues and problems in the development of the American nation from the Civil War to the present.
- P 2205 212
SOCIAL HISTORY OF THE UNITED STATES 3.0
Social and cultural aspects of American history. Population movements, rural and urban problems, status of women. Utopian ventures, mass media, recreation, human rights.
- P 2205 213
ECONOMIC HISTORY OF THE UNITED STATES 3.0
Major trends in agriculture, commerce, finance, manufacturing, transportation and industrial relations from colonial beginnings to the present. Also listed under Economics as C 2204 213.
Prerequisites: C 2204 101, C 2204 102 or C 2204 200.
- P 2205 214
DIPLOMATIC HISTORY OF THE UNITED STATES 3.0
Evolution of American foreign policy and diplomacy from the Revolution to the present. Selected basic readings in the field.

- P 2205 215
WOMEN IN AMERICAN HISTORY 3.0
The changing role and status of women in American society from colonial times to the present.
- P 2205 216
HISTORY OF THE AMERICAN FAMILY 3.0
Studies the history of the American family as a dynamic social institution. The course will focus on the changing role of the family in America; the varieties of family structures in past times, and the significance of the family in American cultural and social history.
- P 2205 217
HISTORY OF BLACK AMERICANS 3.0
Role of Americans of African descent in the development of the United States. Contributions of black Americans from initial discovery and exploration to mid-20th century.
- P 2205 218
POLITICAL HISTORY OF THE UNITED STATES 3.0
The historical development of American political institutions from the early 1700's to the present. Focus upon the evolution of constitutional and legal structures, the party system and pressure groups, the role of bureaucracies, and the impact of political leaders.
- P 2205 219
SPORT IN HISTORY 3.0
This course takes a global approach to the history of sport, but focuses on the role of sport in American history. It examines sport in early world cultures, the development of sport as a mass spectator phenomenon in modern times, and the social significance of sport in the contemporary world.
- P 2205 221
EUROPE'S CONQUEST OF THE AMERICAS, 1415-1763 3.0
A study of European explorations, discoveries and territorial settlements in the Americas during the 15th to the 18th century. Examination of the expansion and impact of Europe – institutions, ideas, traditions, technologies – and resulting confrontations with and impact on native American peoples.
- P 2205 223
COMMUNIST REVOLUTION IN CHINA 3.0
Ideological and historical significance studied against the background of domestic and international events, personalities and ideologies.
- P 2205 231
NEW JERSEY PAST AND PRESENT 3.0
A survey of New Jersey history emphasizing (1) the state's political, economic, and social heritage and evolution, and (2) New Jersey's role in the development of the United States.
- P 2205 281
GREEK CIVILIZATION 3.0
The political, social, economic, and cultural history of the Greek world from the Bronze Age to the Roman conquest as seen through literary, documentary, and archaeological sources. Also listed under Classics as K 4903 281.
- P 2205 282
ROMAN CIVILIZATION 3.0
The political, social, economic, and cultural history of the Roman world from the Regal Period to Justinian as seen through literary, documentary, and archaeological sources. Also listed under Classics as K 4903 282.
- P 2205 309
FEMINIST IDEAS IN WESTERN THOUGHT 3.0
History of feminist ideas and theories about women and womanhood. Students examine important theoretical literature in Europe and America from 18th century to present. Original texts of Wollstonecraft, Fuller, Mill, and Freud will be considered against their socio-historic milieu.
- P 2205 310
IMMIGRANT IN AMERICAN HISTORY 3.0
The processes by which the immigrant was incorporated into American society. Includes the cultural backgrounds from which the different groups came, the reasons for emigration, the nature of the communities they created once they reached the U.S., their religious and social institutions, the problems of maintaining ethnic culture with the pressure to Americanize.
- P 2205 311
EARLY HISTORY OF NEW JERSEY 1702-89 3.0
From royal colony to the establishment of the federal government under the constitution; state and local events during the American Revolution.
- P 2205 312
HISTORICAL GEOGRAPHY OF THE UNITED STATES 3.0
The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800. The rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1809. Also listed under Environmental, Urban and Geographic Studies as N 2206 312.
- P 2205 313
BIOGRAPHY IN AMERICAN HISTORY 3.0
The significant biographical materials available in the study of American history. The problems and uses of biography.
- P 2205 315
WAR IN HISTORY 3.0
Examines selected wars in the history of the world in an attempt to learn about causes and consequences of war. Considers attempts to prevent war in the past, and proposed methods for preventing war in the future.
- P 2205 320
AMERICAN URBAN HISTORY SINCE 1880 3.0
Transformation of the 19th century industrial city into the 20th century metropolis. The emergence of the New York metropolitan region.
Prerequisite: P 2205 211 or equivalent background.
- P 2205 321
HISTORY OF THE AMERICAN WORKER SINCE 1877 3.0
History of the American worker rather than his trade union. The worker's legal status, political behavior, social and cultural activities, treatment by employer and state.
- P 2205 322
MIDDLEVEAL EUROPEAN CIVILIZATION 450-1350 3.0
Origins, development and significance of a civilization whose political, social and cultural foundations had a spiritual basis and unity.
- P 2205 323
HISTORY OF RUSSIA TO 1917 3.0
Factors shaping the Russian people: Byzantium and Greek Orthodox faith, tartar state organization, the Mir, westernization from Peter to Lenin, intellectual and radical movements.
- P 2205 324
RUSSIA SINCE 1917 3.0
Political, social, economic and intellectual developments in the Soviet Union. The relationship of ideology and national goals.
- P 2205 328
CONFLICT IN MODERN IRELAND 3.0
A history of Irish nationalism with emphasis on the period from 1782 to the present.
- P 2205 329
HISTORY OF ENGLAND TO 1714 3.0
Emphasis on political and constitutional history, the formation of basic institutions of law and government and related economic, social and cultural factors.

- P 2205 330**
CHINESE SOCIAL HISTORY THROUGH LITERATURE 3.0
 Masterpieces of the Chinese literary tradition from earliest times to the 20th century. Literary genre in historical perspective and as expression of social and cultural values.
- P 2205 331**
HISTORY OF ENGLAND 1714-1914 3.0
 Political, social and economic history from the Hanoverian succession to the 20th century. Industrial Revolution, changing balance of the constitution, British imperialism, the Irish question.
- P 2205 332**
REVOLUTIONS IN LATIN AMERICAN HISTORY 3.0
 Examines and compares the causes, course and consequences of three major social revolutions in Latin America: Mexico (1910), Bolivia (1952), Cuba (1959).
- P 2205 333**
HISTORY OF BRAZIL 3.0
 Traces the historical development from the pre-historical Indian cultures to the 1970's. Covers the social, cultural, political, economic and religious aspects of the largest Latin-American nation.
- P 2205 343**
RESEARCH TECHNIQUES-AMERICAN HISTORY 3.0
 This course is proposed for the three week January innovative instruction period as provided in the college calendar. The aim is to utilize this period for instruction of history majors in the techniques and problems of research with primary sources. Also, to familiarize them with the sources of American history in the depositories.
Prerequisite: Open only to history majors. Limited enrollment of 12 students.
- P 2205 408**
INDEPENDENT STUDY EUROPEAN HISTORY 3.0
 To provide opportunity for students, mainly history majors, to do independent work in the field.
- P 2205 409**
INDEPENDENT STUDY NON-WESTERN HISTORY 3.0
 To provide opportunity for students, mainly in history or transcultural studies, to do independent work in the field.
- P 2205 410**
INDEPENDENT STUDY IN AMERICAN HISTORY 3.0
 To provide an opportunity to do independent work in the field.
- P 2205 411**
INTELLECTUAL HISTORY OF THE UNITED STATES 3.0
 Development and contributions of the thought of individuals and groups, dominant and minority, and their effect on the American mind, traditions and practices.
- P 2205 416**
CHURCH AND STATE IN LATIN AMERICA 3.0
 The Roman Catholic Church as the major spiritual institution as well as a cultural, moral, political and economic force in Latin America.
- P 2205 419**
AGE OF RENAISSANCE, 1350-1517 3.0
 Political, economic, social and broad cultural developments in Italy and western Europe during 1350-1517.
- P 2205 420**
THE REFORMATION ERA, 1500-1650 3.0
 Religious movements of the 16th and 17th centuries, their medieval antecedents. The accompanying political, intellectual and socioeconomic forces.
- P 2205 422**
STUDIES IN ENLIGHTENMENT HISTORY 3.0
 Major intellectual developments in 18th century Europe. Rise of skepticism, toleration, empiricism, idea of progress. Readings in Hume, Voltaire, Diderot, Rousseau, Kant and antecedent figures.
Prerequisite: P 2205 105 or equivalent background.
- P 2205 424**
DIPLOMATIC HISTORY OF EUROPE 3.0
 Diplomatic history of Europe since the Congress of Vienna. Emphasis on development of diplomatic practice and relations between states during 1870 to present.
- P 2205 425**
IDEAS IN EUROPEAN HISTORY: BURKE TO NIETZSCHE 3.0
 Conservative, liberal, romantic, utilitarian and early existential streams of thought in 19th century Europe. Readings in Burke, Bentham, Mill, Hegel, Nietzsche and others, with attention to historical background.
Prerequisite: P 2205 106 or equivalent background.
- P 2205 426**
THE NAZI THIRD REICH 3.0
 Major economic, social, political and intellectual developments in 20th century Germany. Demise of Weimar Republic and ascension of Nazi Third Reich.
Prerequisites: P 2205 106 or equivalent background.
- P 2205 431**
DEVELOPMENT OF INDIAN CHARACTER AND CULTURE 3.0
 The historical conditioning of Indian behavior. Culture change in the perspective of colonialism and modernization. Contributions of religion to social and political values and modern literature.
Prerequisite: P 2205 131.
- P 2205 432**
DEVELOPMENT OF JAPANESE CHARACTER AND CULTURE 3.0
 The historical conditioning of Japanese behavior. Cultural change in the perspective of traditional periodization of Japanese history. Contributions of religion and philosophy to defining social values. Also listed under Anthropology as J 2202 432.
- P 2205 433**
AMERICAN COLONIAL HISTORY 1607-1763 3.0
 Developments within the English colonies, interactions between England and the colonists, growth of a distinctive American society.
- P 2205 434**
AMERICAN REVOLUTION AND EARLY REPUBLIC 1763-1828 3.0
 Analysis of events leading to the war for independence. Political, economic and foreign problems of the new nation and growth of nationalism.
- P 2205 435**
THE UNION IN CRISIS 1820-1877 3.0
 Significant events and developments of the period, Jacksonian Democracy, westward expansion and sectionalism, the Civil War and reconstruction.
- P 2205 436**
AMERICA IN THE GILDED AGE 3.0
 The forces which contributed to the development of modern, industrialized America. American society and its reaction to changes of the period.
- P 2205 437**
AMERICAN SOCIETY IN 20TH CENTURY 3.0
 The continuing reactions to the problems of an industrialized America. The New Deal and recent supreme court decisions.

P 2205 438
AMERICA IN THE SIXTIES: THE CRISIS OF CONSENSUS LIBERALISM 3.0
 Analyzes the crisis of American liberalism as that ideology was beset by the consequences of postwar affluence and the growing radicalism during the Kennedy-Johnson administration; and the backlash that developed into the Nixon "New Majority."

P 2205 443
INTERNSHIP IN HISTORY 3.0
 Opportunity for the advanced student to acquire practical experience working directly with primary sources of history in state and local depositories of historical materials.
Prerequisites: 21 semester hours prior course work in history and permission of program coordinator.

P 2205 460
INDEPENDENT TRANSCULTURAL STUDY 3.0
 Conducted as an interdisciplinary tutorial course with no formal class meetings, this study program includes directed reading and preparation of written papers on transcultural subjects not offered in the regular curriculum and advanced independent study of subjects with which students have had course experience. Students seeking admission must secure approval of at least two professors representing different fields in the transcultural program.
Prerequisite: 21 semester hours of credit in transcultural studies.

P 2205 461
CULTURAL HISTORY OF PRIMITIVE SOCIETIES 3.0
 Interdisciplinary approach to the aims, methods and techniques of ethnohistorical research. Sources of data include both documentary and non-documentary evidence in reconstructing the culture history of pre-literate or semi-literate societies. Also listed under Anthropology as J 2202 461.
Prerequisite: J 2202 100 or P 2205 200.



Home Economics

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Katharine B. Hall

Home Economics is concerned with the study of individuals and families, their environments, needs, problems and futures. The department offers six specializations which synthesize, interrelate, and integrate knowledge from other disciplines toward understanding and finding solutions to concerns of individuals and families.

A Bachelor of Science degree is offered in Foods and Nutrition and Food Service Management; the Bachelor of Arts degree is offered in Consumer Affairs, Family and Child Studies, Fashion Studies, and Home Economics Education. Students may prepare to teach, work with businesses, agencies, government programs, other institutions and/or pursue graduate study. Courses are open as electives for those majoring in other fields of study.

Home Economics Major

Required Courses (All Concentrations)

	Semester Hours
1301 100 Professional Orientation	2
1301 304 Introduction to Research	3
1301 400 Senior Seminar	1
1304 270 Individual Management: Theories and Strategies	3

Concentration Programs Within the Major

Consumer Affairs

Required Courses

	Semester Hours
1301 409 Internship in Home Economics	8-12
1304 335 Consumers in the Market	3
1304 435 Consumer Action	3
1304 470 Family Management	3
1305 140 Family in Society	3
1305 445 The Inner City Family	3

12 semester hours in one of these areas: Consumer Services; or Foods, Nutrition, Food Service Management; or Housing, Clothing and Textiles, Interior Design, Household Equipment.

Collateral Courses

0509 340 Introduction to Marketing	3
1506 234 Fundamentals of Public Speaking	3
1509 102 Ethics	3
2001 101 General Psychology I	3
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3
History course OR	
2202 100 Cultural Anthropology	3
Political Science course	3

Electives (General)

Select 38 semester hours from the appropriate list to be obtained from the department 38

Family and Child Studies

Required Courses

1301 141	Interpersonal Relations	3
1301 448	Family Counseling	3
1303 122	Clothing and Culture OR	3
1303 221	Fabrics for the Consumer	3
1304 231	The Family in the Economic System OR	3
1304 331	Money Management	3
1304 470	Family Management	3
1305 140	Family in Society	3
1305 214	Child Development I	3
1305 314	Child Development II	3
1305 315	Field Experiences in Family and Child Services	3
1305 342	Family Sociology	3
1305 445	The Inner City Family	3
1306 153	Food and People	3
1306 182	Nutrition	3

Collateral Courses

2001 101	General Psychology I	3
2001 201	Child Psychology	3
	Anthropology or Sociology	3

Electives

Select electives from the appropriate list supplied by department 22

Nursery/Kindergarten Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. 0830 400 Foundations of Reading Instruction substitutes for 0830 407 Developmental Reading Principles and Techniques I. In addition, the following courses must be taken:

1305 319	Language and Literature for Young Children	3
1305 416	Creative Experiences I: Expressive Media	3
1305 420	Program Planning in Early Childhood Education	3

Fashion Studies

Required Courses

	Semester Hours
1301 408	Workshop in Home Economics: Merchandising Fashion 3
1301 409	Internship in Home Economics 8
1302 265	Interior Design 3
1303 122	Clothing and Culture 3
1303 220	Textile and Apparel Industry 3
1303 298	Textiles I: Introduction 3
1303 320	Historical Analysis of Fashion 3
1304 435	Consumer Action 3

Collateral Courses

0506 310	The Management Process	3
0509 340	Introduction to Marketing	3
1001 101	Foundations of Visual Organization I	3
1003 105	Art and Civilization I	3
1905 100	Introductory Chemistry	3
2001 102	General Psychology I	3
2202 100	Cultural Anthropology	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3
Studio Art course		3

General Education

French, Spanish or Italian to fulfill foreign language requirement 6

Electives

Select 20 semester hours from the appropriate list to be obtained from the department 20

Foods and Nutrition

Required Courses

		Semester Hours
1304 470	Family Management	3
1305 140	Family in Society	3
1305 445	The Inner City Family	3
1306 150	Principles of Food Preparation	3
1306 153	Food and People	3
1306 182	Nutrition	3
1306 255	Meal Management	3

Collateral Courses

1905 107	College Chemistry I	2
1905 109	College Chemistry Lab I	1
1905 130	Fundamentals of Organic Chemistry	4

Electives

Select 26 semester hours from the appropriate list to be obtained from the department 26

American Dietetics Association

In addition to taking course requirements listed for the Home Economics major and the Foods and Nutrition concentration, a student who wishes to fulfill the minimum requirements for professional training of the American Dietetic Association should contact the department for current requirements.

Foodservice Management

Required Courses

		Semester Hours
1301 409	Internship in Home Economics	8-12
1306 150	Principles of Food Preparation	3
1306 153	Food and People	3
1306 182	Nutrition	3
1307 252	Organization and Management of Foodservice Systems	3
1307 253	Quantity Food Purchasing and Production	3
1307 254	Foodservice Equipment and Facility Design	3
1307 352	Organization and Management of Foodservice Systems	3
1307 353	Specialized Food Production	3

Collateral Courses

0401 242	Human Biology	3
0401 254	Applied Microbiology	3
0501 261	Legal Environments of Business I	3
0502 200	Accounting for Non-Business Majors	3
0506 316	Human Resource Management OR	3
2001 240	Industrial and Organizational Psychology	3
0506 310	The Management Process	3
0509 340	Introduction to Marketing	3
0701 108	Computers and Programming	3
1905 107	College Chemistry I	2
1905 109	College Chemistry Laboratory I	1
1905 130	Fundamentals of Organic Chemistry	4
2001 101	General Psychology I	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3

Electives

Select 21-25 semester hours from the appropriate list to be obtained from the department 21-25

Home Economics Education

Required Courses

	Semester Hours
0893 201 Introduction to Home Economics Education	3
1301 141 Interpersonal Relations	3
1302 160 Equipment in the Home	3
1302 260 Human Shelter	3
1303 120 Clothing Construction	3
1303 122 Clothing and Culture	3
1303 298 Textiles I: Introduction	3
1304 435 Consumer Action	3
1304 470 Family Management	3
1305 140 Family in Society OR	
1305 248 Family Relations	3
1305 214 Child Development I	3
1306 150 Principles of Food Preparation	3
1306 182 Nutrition	3
1306 255 Meal Management	3
Home Economics Elective	3

Collateral Courses

2001 101 General Psychology I	3
2204 101 Principles of Economics: Macro	3
Anthropology or Sociology	3

Home Economics Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the Department of Curriculum and Teaching. In addition, the course 0893 309 Teaching of Home Economics must be taken.

Courses of Instruction

6 0893 201
INTRODUCTION TO HOME ECONOMICS EDUCATION 3.0
Exploration of the roles of home economics educators; home economics programs; teaching environments; curriculum design and methodology. Field trips to a variety of programs followed by analysis.

6 0893 302
NUTRITION EDUCATION TECHNIQUES 3.0
Procedures and techniques for developing programs and teaching nutrition to a variety of target populations. Individual and group methods emphasize innovation.
Prerequisite: 6 1306 182.

6 0893 309
TEACHING OF HOME ECONOMICS 3.0
Curriculum development. Materials and teaching strategies appropriate to home economics. 1 0829 410 Intermediate Experience in Education must be taken concurrently. To be taken semester prior to student teaching.

6 0893 403
CONSUMER EDUCATION TECHNIQUES 3.0
Curriculum development, teaching strategies, resources and materials related to teaching consumer education.
Prerequisite: 6 1304 435.

6 1301 100
PROFESSIONAL ORIENTATION 3.0
Orientation to the philosophy of the profession. Field experiences with home economists in a variety of settings to provide exposure to the breadth of professional opportunities.

6 1301 141
INTERPERSONAL RELATIONS 3.0
Relevant and up-to-date information about meaningful human relationships throughout the life cycle.

6 1301 205
WOMEN IN CONTEMPORARY SOCIETY 3.0
Those historical developments and social forces which have shaped the status of women in America. Discussion of current concerns and role options available to today's women.

6 1301 304
INTRODUCTION TO RESEARCH 3.0
Provides awareness of the contributions of research to the advancement of human welfare. Developing skills for intelligent pursuit and consumption of research. No freshmen.

6 1301 308
INDEPENDENT STUDY 1.0-3.0
Advanced areas of home economics not offered in the regular curriculum.
Prerequisite: Junior or senior standing.

6 1301 344
CHALLENGE OF AGING 3.0
The change over the adult life span as it affects family interaction and resources in various sub-cultures. Implications for social policy and institutions relative to an increasing aging population. Field participation with agencies and elders; minimum 6 hours contact.

6 1301 400
SENIOR SEMINAR 1.0
The role of professional home economists in meeting contemporary societal needs. Problems of entry into the field. Majors only.
Prerequisite: Senior standing.

6 1301 408
WORKSHOP IN HOME ECONOMICS 1.0-3.0
Opportunity to study selected current problems in the field of home economics.

6 1301 409
INTERNSHIP IN HOME ECONOMICS 8.0-12.0
Opportunity to work as an intern with a professional home economist in business, a community agency or an organization.
Prerequisite: Senior standing, admission to program. Application available in Home Economics Department.

6 1301 448
FAMILY COUNSELING 3.0
Techniques and theories of collecting data and counseling families with such problems as money management, nutrition concerns, parent-child relationships and value conflicts.
Prerequisites: 30 semester hours in Home Economics, junior or senior standing.

6 1302 160
EQUIPMENT IN THE HOME 3.0
Principles and resources involved in the selection, use and care of equipment in the home.

6 1302 260			
HUMAN SHELTER	3.0		
Housing needs of today's families from an economic, social and psychological premise. Organization of living space; selection and use of materials to meet the needs of the family throughout the life cycle.			
6 1302 265			
INTERIOR DESIGN	3.0		
Selection, organization and evaluation of furnishing for the residential environment. Principles and elements of design studied in relation to interior residential space.			
6 1303 120			
CLOTHING CONSTRUCTION	3.0		
Theory and techniques for achieving well-fitted apparel; basic concepts, competences and technologies using appropriate fabrics and commercial patterns.			
6 1303 122			
CLOTHING AND CULTURE	3.0		
Analysis of dress in terms of cultural, social, psychological, historic and economic influences. Clothing choices related to individual concerns, including esthetic, physical and ecological factors.			
6 1303 220			
TEXTILE AND APPAREL INDUSTRY	3.0		
In-depth study of factors which spur progress, affect supply, demand, and ultimately the consumer. History, economic structure and patterns of production, distribution and marketing of textile and clothing industries.			
6 1303 226			
ADVANCED CLOTHING CONSTRUCTION	3.0		
A conceptual approach to problems in custom dressmaking; fabric characteristics; selection of appropriate construction techniques; suitability of fashion to the individual.			
<i>Prerequisite: 6 1303 120 or equivalent.</i>			
6 1303 298			
TEXTILES I: INTRODUCTION	3.0		
Intensive study of fibers, yarn, fabric constructions, and finishes related to consumer concerns for use, durability, care, and cost. For students with a professional interest in textiles and clothing.			
6 1303 322			
FIELD VISITS TO CLOTHING AND TEXTILES FIRMS	1.0		
Opportunity to observe systems of manufacture, distribution and marketing of textile merchandise.			
<i>Prerequisite: Instructor's permission.</i>			
6 1303 422			
APPAREL DESIGN: DRAPING	3.0		
Design principles and fabric properties; figure types; fashion interest. Draping fabric on a three-dimensional body and form for interpretation of design.			
<i>Prerequisite: 6 1303 120.</i>			
6 1303 424			
TAILORING	3.0		
The concepts, procedures and skills of custom tailoring; techniques of fine as well as speed processes; comparing and evaluating custom and factory-made garments.			
<i>Prerequisite: 6 1303 120.</i>			
6 1303 426			
APPAREL DESIGN: FLAT PATTERN	3.0		
Flat pattern design in developing original designs for apparel. Basic pattern used to execute designs related to the use of fabric on a human form.			
<i>Prerequisite: 6 1303 120.</i>			
6 1304 231			
THE FAMILY IN THE ECONOMIC SYSTEM	3.0		
The family as an economic unit in society. Economic behavior of various sub-cultures, age groups and family patterns.			
6 1304 270			
INDIVIDUAL MANAGEMENT: THEORIES AND STRATEGIES	3.0		
Opportunity to investigate management theories and apply them to personal life. Influences on, and blocks to, personal management, problem solving, planning, and expediting.			
6 1304 331			
MONEY MANAGEMENT	3.0		
The role and meaning of money in individual and family living. Income as a means of acquiring a style of life. The effective control of income in spending, saving, credit purchases and providing for future needs. No freshmen.			
6 1304 335			
CONSUMERS IN THE MARKET	3.0		
The consumer perspective of the marketplace. Emphasis on developing research skills and understanding laws, regulations and agencies that affect the consumer. No freshmen.			
6 1304 435			
CONSUMER ACTION	3.0		
The marketplace as a social, psychological and economic institution serving families. Emphasis on advertising, selling practices, pricing strategies, trends and current issues which affect the quality of goods and services.			
<i>Prerequisites: C 2204 101 or 102.</i>			
6 1304 470			
FAMILY MANAGEMENT	3.0		
Opportunity to analyze situations in which individuals and families use resources to maintain daily life and solve problems. Roles, goals, decision making, use of human and non-human resources and factors influencing household management.			
<i>Prerequisite: 6 1304 270.</i>			
6 1305 140			
FAMILY IN SOCIETY	3.0		
Provides basic insights and concepts from the social sciences to study the history and structure of the family as a basic but changing institution in modern America.			
6 1305 214			
CHILD DEVELOPMENT I	3.0		
The pre-school child (2-5 years). The major challenges confronting the developing child as he/she masters the task of socialization. Supervised observation and participation with groups of preschool children for 2½ hours per week, each week of the semester			
<i>Prerequisite: T 2001 101.</i>			
6 1305 215			
INFANT DEVELOPMENT	3.0		
The infant as a developing individual within the family. Theory and research in the area of human infancy. Physical, cognitive and emotional growth from pre-natal through the first two years of life.			
6 1305 248			
FAMILY RELATIONS	3.0		
The family life cycle. Courtship, adjustment in marriage, pregnancy, child rearing. Later stages of parenthood and old age.			

6 1305 314
CHILD DEVELOPMENT II 3.0
The growth and development of the school-aged child (6-18). Examination of peers and family interactions, as well as the institutions of society as they influence the developing child/adolescent. Assigned activities with adolescents with 15 hours of field participation.
Prerequisite: 6 1305 214.

6 1305 315
FIELD EXPERIENCES IN FAMILY AND CHILD SERVICES 3.0
Planned supervised experience with selected agencies offering services for families and children. 35 hours of field work required.
Prerequisites: Completion of 30 hours of Family and Child Studies program, 6 1305 214.

6 1305 319
LANGUAGE AND LITERATURE FOR YOUNG CHILDREN 3.0
The qualities of children's expression through language, books, stories and poems. Criteria for evaluating material for the pre-school program. No freshmen.

6 1305 320
PARENTING SKILLS AND RESOURCES 3.0
Opportunity to develop effective parenting skills and knowledge of human development needed for application of these skills. Impact of parenting resources on both parents and non-parents. Local, state and national resources examined. Assigned activities with children.

6 1305 342
FAMILY SOCIOLOGY 3.0
Familiarizes students with data relating to the family as an institution, its development, dynamics and place in society. The impact of rapid social change on the American family. No freshmen.

6 1305 414
ORGANIZATION AND MANAGEMENT OF CHILD CARE CENTERS 3.0
Basic principles of supervision and administration applied to developing a sound program in a modern pre-school program. The learning process applied to the professional development of staff. Organization and administration of individual classrooms and the total school program; and the relationship of the school to community services and agencies.
Prerequisite: 6 1305 214, junior/senior standing.

6 1305 416
CREATIVE EXPERIENCES I: EXPRESSIVE MEDIA 3.0
Curriculum experiences designed to nurture young children's self-expression and creativity in areas of art, music, dramatic play, woodworking and block play.
Prerequisites: 6 1305 214, majors only, junior/senior standing.

6 1305 418
STRATEGIES FOR WORKING WITH PARENTS 3.0
Establishing a positive team approach between the parent and teacher. Parent-teacher interaction. How the teacher interprets parental anxieties, and conducts individual conferences and group meetings.
Prerequisite: 6 1305 214.

6 1305 420
PROGRAM PLANNING IN EARLY CHILDHOOD EDUCATION 3.0
Principles of curriculum development for programs for pre-school children. Taken the semester prior to student teaching and concurrently with 1 0829 410 Intermediate Experience in Education.

6 1305 445
THE INNER CITY FAMILY 3.0
Sub-cultures residing in large cities. The impact of urbanization, ethnicity, social and economic institutions. Problems which families encounter. Community contact is part of the course.
Prerequisite: Junior/senior standing.

6 1306 150
PRINCIPLES OF FOOD PREPARATION 3.0
Principles of basic food science involved in preparation of standard food products. Food selection and purchasing.

6 1306 153
FOOD AND PEOPLE 3.0
Discussion of diverse factors which influence food selection in various cultures. World food patterns, nutritional significance of a changing food supply.

6 1306 182
NUTRITION 3.0
The nutrients in food, their functions in the human body, and diet requirements for people in various age groups.

6 1306 255
MEAL MANAGEMENT 3.0
Food preparation, nutrition and management in planning, preparing and serving family meals to utilize the resources available.
Prerequisites: 6 1306 150, 182.

6 1306 282
COMMUNITY NUTRITION 3.0
The application of basic nutritional knowledge to individuals and community agencies. Assessing and planning educational programs to correct nutrition problems. Field studies and group projects.
Prerequisite: 6 1306 182.

6 1306 357
EXPERIMENTAL FOODS 3.0
Scientific principles underlying food preparation. Laboratory experiments illustrate the effect of varying ingredients and preparation procedures on the quality of food products.
Prerequisites: X 1905 130, 6 1306 150.

6 1306 382
ADVANCED NUTRITION 3.0
The physiological and chemical bases for nutrient needs, mechanisms through which nutrients meet the biological needs of man. Evaluation and interpretation of research findings.
Prerequisites: 6 1306 182, W 0401 243, X 1905 270.

6 1306 456
RESEARCH IN FOODS 3.0
Scientific method in the design and execution of experimental food studies and in the interpretation and evaluation of results. Independent laboratory research.
Prerequisites: 6 1306 150, 6 1306 357.

6 1306 488
DIET THERAPY 4.0
The application of basic nutritional principles and diet to the treatment of diseases and conditions other than normal.
Prerequisites: 6 1306 382, W 0401 243, 254, X 1905 270.

6 1306 489
EXTERNSHIP IN FOOD AND NUTRITION 3.0
A supervised experience in selected quantity food services, agencies, clinics or organizations involved in foods and nutrition problems of the community.
Prerequisites: 6 1306 382, 6 1307 253, instructor's permission.

6 1307 253
QUANTITY FOOD PURCHASING AND PRODUCTION 3.0-4.0
 Determining needs, purchasing, storing, preparing and serving food in large volume.
Prerequisites: 6 1306 150, 182.

6 1307 254
FOODSERVICE EQUIPMENT AND FACILITIES DESIGN 3.0
 Selection of equipment based on needs of the foodservice system. Purchasing procedures.
Prerequisite: 6 1307 253.

6 1307 352
ORGANIZATION AND MANAGEMENT OF FOODSERVICE SYSTEMS 3.0
 Principles of management, organizational structure, policy and decision-making. The menu in management, budgeting and cost control, sanitation and safety, personnel policies and management.
Prerequisites: 6 1306 150, A 0501 310, 6 1307 253.

6 1307 353
SPECIALIZED FOOD PRODUCTION 3.0
 Opportunity to study selected problems in food production in various types of food service operation. Menu planning and production for special events; terminology and techniques utilized in specialized areas of food production. 90 hours per semester in a laboratory experience and one hour of classroom instruction per week.
Prerequisites: 6 1307 253, 352.



Industrial Studies

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: George A. Olsen

An interest in design; graphic communication, mechanical drawing or architectural drafting; graphic arts; wood, metal or plastics technology; electricity or electronics; energy and power, alternate energy technology, or automotive technology; or jewelry should lead the student to the department of Industrial Studies. The Bachelor of Science degree can be earned in order to prepare for a career in Industrial Supervision/Management or teaching.

Industrial Education and Technology Major

Required Courses

	Semester Hours
0990 101 Introduction to Industry, Education and Technology . . .	1
0839 101 Technology and Culture: Past, Present and Future	3
0990 210 Design Fundamentals and Problem Solving	3
0990 220 Graphic Communications	3
0990 230 Graphic Arts	3
0990 240 Foundations of Industry - Wood	3
0990 250 Industrial Plastics	3
0990 260 Metalworking Practices	3
0990 270 Electricity Fundamentals	3
0990 280 Energy and Power	3
Advanced Specialization	
Select 22 semester hours of 300 and 400 level courses from within the department offerings (0990) in consultation with program advisor.	

Concentration Program Within the Major

Industrial Studies

Required Courses

	Semester Hours
0990 461 Management and Production	3
0506 310 The Management Process	3
0509 340 Introduction to Marketing	3
Required Internship or Cooperative Experience	8
Select 9 semester hours from the following:	
0506 315 Organizational Behavior	3
2001 240 Industrial and Organizational Psychology	3
0506 316 Human Resource Management	3
0502 200 Accounting for Non-Business Majors	3
0506 431 Middle and First Line Management	3
0509 342 Managing the Sales Function	3
0701 108 Computers and Programming	3
(It is recommended that the student consult with the program advisor for course selection.)	

Electives (General) 6

Teacher Education Professional Sequence

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Special Program Requirements

Vocational-Technical Teacher Education Program

This is a non-degree program that offers courses and guidance for students who want certification to teach vocational-technical subjects in secondary schools. Candidates must have a high school diploma or equivalency, experience in a trade, industrial occupation, or profession they would like to teach, and approved training in the field. General background courses, professional education and supervised in-service teaching are all included. For further information, call the department.

Courses of Instruction

70839 101
TECHNOLOGY AND CULTURE: PAST, PRESENT
AND FUTURE 3.0
A chronological study of technology and its impact on world culture. Emphasis will be placed on the influence of the western hemisphere during the last 300 years and the world of the future.

70839 302
PRINCIPLES AND METHODS OF TEACHING
INDUSTRIAL EDUCATION 3.0
Professional preparation for student teaching. Emphasis on planning courses of study, lesson plans, behavioral objectives, methodology and evaluation.

70839 408
IN-SERVICE SUPERVISED TEACHING SEMINAR 8.0
For full-time regularly-employed teacher who has all degree requirements except student teaching. Prior registration required.

70990 101
INTRODUCTION TO INDUSTRY, EDUCATION AND
TECHNOLOGY 1.0
A professional orientation and exposure to all professional aspects of industry, education and technology designed to give students insight into the breadth of opportunities within the field.

70990 205
HISTORICAL PERSPECTIVES OF AMERICAN
INDUSTRIES-FIELD STUDY 3.0
A study of selected clusters of industry with an emphasis on the historical development of technology. The course is intended to contribute to the understanding of our technical society and to appeal both to majors and non-majors. The program will consist primarily of visitations to sites representative of past and contemporary American industries.

70990 208
SURVEY OF MODERN INDUSTRY 3.0
Visitation of representative industry to study and evaluate management, labor, materials, processes and products of industry.

70990 210
DESIGN FUNDAMENTALS AND PROBLEM SOLVING 3.0
Creativity, brainstorming, problem solving and analysis-consideration application to practical problems in designing with materials.

70990 220
GRAPHIC COMMUNICATIONS 3.0
All aspects of graphic communication are surveyed with particular emphasis on its role in the industrial and business world.

70990 230
GRAPHIC ARTS 3.0
Major printing processes, use of type, composition, proofing, composition, platen press, screen process and basic lithography.

70990 240
FOUNDATIONS OF INDUSTRY - WOOD 3.0
An overview of the wood product industries with emphasis on the study of the lumber industry, standard hand tool and common machine operation, as well as basic finishing processes.

70990 250
INDUSTRIAL PLASTICS 3.0
Plastic industry, its operations and materials, principles, concepts, machine processing, material selection and equipment use and safety.

70990 260
METAL WORKING PRACTICES 3.0
An introductory study of concepts and processes involving metallic materials supplemented by related laboratory experiences.

70990 270
ELECTRICITY FUNDAMENTALS 3.0
Basic concepts of electricity and their application in the world.

70990 280
ENERGY AND POWER 3.0
A study of all sources of energy and their various power conversion systems. Exploration through direct laboratory experience.

70990 284
ALTERNATE ENERGY 3.0
Unconventional energy conversion systems that do not rely on standard uses of common fossil fuels. Typical areas of study will include oil shale, tar sands, solar energy photovoltaic conversion systems, wind energy, nuclear fission and fusion, geothermal and hydroelectric energy conversion.
Prerequisite: 7 0990 280.

70990 311
GRAPHIC DESIGN IN PRINT MEDIA 3.0
All aspects of graphic arts design from initial concept to finished artwork. Included are studio methods of layout, composition, classification and selection of type.

70990 312
COMMERCIAL ILLUSTRATION IN PRINT MEDIA 3.0
An exploration of the various illustrative techniques of graphic reproduction. Assignments will be given with an eye toward use in compilation of a professional portfolio.

70990 321
INDUSTRIAL DRAFTING 3.0
Concepts, principles, skills of contemporary industrial practices and processes.
Prerequisite: 7 0990 220.

70990 322
TECHNICAL ILLUSTRATION 3.0
Translation of orthographic drawings into three-dimensional pictorial drawings. Engineering and publication illustration.
Prerequisite: 7 0990 220.

7 0990 323	ARCHITECTURAL DRAFTING – RESIDENTIAL	3.0
The student will explore the functions of a residential architect. Emphasis will be placed on a working knowledge of building construction practices, residential planning and design and architectural drafting techniques.		
7 0990 332	SCREEN PROCESS REPRODUCTION	3.0
Screen process printing and elementary line photography. Handcut films, photographic films and process.		
7 0990 333	BLACK AND WHITE PHOTOGRAPHY	3.0
Photographic processes of continuous tone photography. Darkroom construction. Chemicals, equipment, film exposure, contact printing, enlarging, drying and mounting photographs.		
7 0990 341	MACHINE WOODWORKING	3.0
Shaping wood materials by portable and machine operations maintenance, jig and fixture design.		
<i>Prerequisite: 7 0990 240.</i>		
7 0990 342	CABINET CONSTRUCTION	3.0
All types of cabinet construction. Emphasis on industrial construction procedure in fabricating cabinets.		
<i>Prerequisite: 7 0990 341.</i>		
7 0990 343	HOME MAINTENANCE AND REPAIR	3.0
A survey of practical home maintenance and basic repair methods designed to meet the needs of the layman will be studied through laboratory experiences. Emphasis will be placed upon consumer knowledge, home maintenance and repair, and simple construction techniques.		
7 0990 351	PLASTICS MOLDING AND PROCESSING	3.0
Manipulative processes. Injection, compression, transfer and rotational molding. Process procedure, cycle preparation and adjustment, material selection and use, machine set-up and function, sequential operation, mold use, maintenance and safety.		
<i>Prerequisite: 7 0990 250</i>		
7 0990 352	PLASTICS FORMING AND PROCESSING	3.0
Manipulative processes. Extrusion, blow molding and thermoforming.		
<i>Prerequisite: 7 0990 250.</i>		
7 0990 361	MACHINE TOOL TECHNOLOGY	3.0
Machine metalwork layout, machining and control laboratory activities.		
<i>Prerequisite: 7 0990 260.</i>		
7 0990 363	METALS CASTING TECHNOLOGY	3.0
Contemporary industrial metal casting techniques. Laboratory activities.		
<i>Prerequisite: 7 0990 260.</i>		
7 0990 365	COLD METAL FORMING	3.0
A study of industrial processes as related to sheet metal fabrication, wrought metals, and metalsmithing.		
<i>Prerequisite: 7 0990 260.</i>		
7 0990 371	ELECTRONIC FUNDAMENTALS	3.0
Circuit conditions. Analysis of electronic concepts, theoretically and experimentally.		
<i>Prerequisite: 7 0990 270.</i>		
7 0990 372	ELECTRON TUBES AND SEMI CONDUCTORS	3.0
Solid state devices and electron tubes. Laboratory activities to analyze circuit conditions.		
<i>Prerequisite: 7 0990 371.</i>		
7 0990 373	INTRODUCTION TO LOGIC MACHINE	3.0
Computers and mentors will be studied from the orientation of their effect on industry and society and from the perspective of their construction and operation.		
7 0990 380	BASIC AUTOMOTIVE MECHANICS	3.0
Electronic diagnosis of auto engines, associated manipulative skills. Brakes, lights, front end and suspension systems.		
7 0990 381	AUTOMOTIVE ENGINES AND POWER TRAINS	3.0
Detailed engine operation, engine component design criteria and service procedures. The cooling system and lubrication system studied as accessory systems to the engine. Power train components such as transmissions, clutches, drive lines and differentials.		
<i>Prerequisite: 7 0990 280.</i>		
7 0990 382	AUTOMOTIVE FUEL AND ELECTRICAL SYSTEMS	3.0
Operation, maintenance, testing and servicing of fuel system, ignition systems and electrical systems. Emission control devices studied in conjunction with carburetion.		
<i>Prerequisite: 7 0990 381.</i>		
7 0990 383	AUTOMOTIVE SUSPENSION SYSTEMS AND BRAKES	3.0
Maintenance and service of drum and disc brakes and suspension systems. Study of various suspension systems, wheel balancing techniques systems and automotive air conditioning.		
<i>Prerequisite: 7 0990 280.</i>		
7 0990 385	MOTORCYCLE TECHNOLOGY	3.0
Areas of study will include selection, operation and maintaining a motorcycle. Some specific lessons will include adjusting chains, tune-up, solving electrical problems and engine rebuilding.		
7 0990 400	POWER TOOL MAINTENANCE	3.0
A presentation of accepted maintenance techniques for common industrial tools. Procedures applicable to both machine and portable tools will be dealt with. Troubleshooting, maintenance, overhaul and hands-on activity. Emphasis will be given to the development of preventive maintenance systems.		
<i>Prerequisite: Completion of required major courses or instructor's permission.</i>		
7 0990 406	INDEPENDENT STUDY IN INDUSTRY	1.0-3.0
Individual study problem with faculty guidance and sponsorship. Application required.		
<i>Prerequisite: Departmental permission.</i>		
7 0990 408	FIELD STUDIES OF INDUSTRY	3.0
Visitation of representative industry to study and evaluate management, labor, materials, processes and products of industry.		
7 0990 411	INDUSTRIAL DESIGN	3.0
Designers' approach to design products applicable to mass production techniques.		
<i>Prerequisite: 7 0990 210.</i>		

7 0990 415
WORKSHOP/SEMINAR IN INDUSTRIAL EDUCATION AND TECHNOLOGY 1.0-3.0
 Opportunity is afforded students to study selected current issues, concerns, and/or problems in the various fields of industry, education and technology.

7 0990 422
ENGINEERING GRAPHICS 3.0
 The fundamentals of descriptive geometry are explored in conjunction with orthographic projection as a system of identifying three-dimensional space data for the graphical solution of applied engineering problems.

7 0990 423
ARCHITECTURAL DESIGN 3.0
 Basic aesthetic, functional and structural design, residential and light building structure. Environmental control, lighting, wiring, waste and utility systems.

7 0990 424
ENERGY CONSERVATION: RESIDENTIAL 3.0
 This course is directed specifically toward all students with interest in energy conservation and the environment and for current and future homeowners. Emphasis will be placed on energy sources in housing, designing energy efficient houses, heating and cooling systems and retrofitting older homes.

7 0990 425
ARCHITECTURE: DIRECTED STUDY 3.0
 An advanced course directed toward individual design, research, and/or experimentation with residential, commercial, environmental, or energy efficient concepts in architecture. Through individual instruction the student will explore self-directed areas of study within the architectural field.
Prerequisite: Instructor's permission.

7 0990 431
OFFSET LITHOGRAPHY 3.0
 Photo-lithographic process. Copy preparation, camera techniques, line and halftone photography, densitometry, stripping, platemaking and presswork.
Prerequisite: 7 0990 230.

7 0990 432
ADVANCED OFFSET LITHOGRAPHY 3.0
 Advanced technical information and skills. Photographic chemistry, advanced halftone techniques, posterization, duo-tones, trio-tones, screen calibration development, color negative development, enlarging and densitometric control.
Prerequisite: 7 0990 431

7 0990 433
COLOR PHOTOGRAPHY 3.0
 Basic techniques and processes of color photography. Analysis of light, color evaluation, color transparency development, color negative development, enlarging and densitometric control.
Prerequisite: 7 0990 333.

7 0990 434
COLOR SEPARATION 3.0
 Color separation in graphic reproduction. Light, color films sensitivity, masking, color correcting, color proofing, stripping, exposure controls, densitometric measurements, screens, screen angles and press operation.
Prerequisite: 7 0990 433.

7 0990 441
WOOD TECHNOLOGY 3.0
 Origins, developments and advances in woods and properties, manufacturing processes and occupational information.
Prerequisite: 7 0990 240.

7 0990 442
RESIDENTIAL CONSTRUCTION 3.0
 Residential construction materials and processes.
Prerequisite: 7 0990 342.

7 0990 451
PLASTICS PROCESSING TECHNOLOGY 3.0
 Advanced technology in injection, compression, transfer and epoxy molding. Extrusion, lamination and casting. Skill development, mold and die-making, operational procedure, processes and material application.
Prerequisites: 7 0990 250, 351 or 352.

7 0990 452
PLASTICS MOLD AND FORM DESIGN, DEVELOPMENT AND CONSTRUCTION 3.0
 The design, development, construction and proof of an appropriate mold or form.
Prerequisite: 7 0990 250.

7 0990 461
MANAGEMENT AND PRODUCTION 3.0
 Mass production techniques. Market analysis, manufacturing and production control.

7 0990 466
WELDING TECHNOLOGY 3.0
 Working knowledge of arc and gas welding. Provides New Jersey welding certificate upon successful completion.
Prerequisite: Pre-registration with instructor.

7 0990 467
ADVANCED WELDING TECHNOLOGY 3.0
 Advanced study of concepts and processes including mig and tig welding, pipe welding, sheet metal welding, special welding processes and techniques, maintenance and equipment, inspecting and testing welds, and welders' qualifications. New Jersey state welding certification required.
Prerequisite: Pre-registration with instructor.

7 0990 471
ELECTRONIC CIRCUIT APPLICATION 3.0
 The effect of characteristic change on basic electrical circuits.
Prerequisite: 7 0990 372.

7 0990 472
INDUSTRIAL ELECTRONIC CIRCUITS 3.0
 Complex industrial and commercial circuit application through theoretical analysis and laboratory experimentation.
Prerequisite: 7 0990 372.

7 0990 482
FLUID POWER 3.0
 Theory and application of fluid power. Principles and laws of pneumatic and hydraulic power with frequently used components and circuitry.
Prerequisite: 7 0990 280.

7 0990 490
JEWELRY AND LAPIDARY 3.0
 Jewelry and lapidary processes, design and materials.

7 0990 493
DIRECTED STUDY IN JEWELRY 3.0
 An in-depth study of one of four areas (wrought metal, enameling, casting, lapidary) to be chosen at time of registration. The course may be taken twice for a total of six semester hours.
Prerequisite: 7 0990 490.

7 0990 495
INDUSTRIAL EDUCATION FOR ELEMENTARY GRADES 3.0
Developing activities and methods for including industrial education experiences designed to provide an integrate approach to elementary education.

7 0991 405
COOPERATIVE INDUSTRIAL INTERNSHIP 4.0 or 8.0
The cooperative education experience integrates academic study with supervised, non-professional employment outside the formal classroom environment. The co-op term is a semester off-campus during which a student, while supervised by a faculty coordinator and the office of cooperative education, is responsible for completing the terms of a predetermined learning contract.

7 0998 402
CURRICULUM CONSTRUCTION IN VOCATIONAL-TECHNICAL EDUCATION 3.0
Practical skills utilized in the design and construction of vocational-technical curriculums. Relationships between related and laboratory curriculum content.

7 0998 403
METHODS OF TEACHING VOCATIONAL-TECHNICAL SUBJECTS 3.0
Methods of teaching, based on vocational-technical education objectives, will include selection of subject matter, selection of text books and other source material, starting a class, preparing individual and sequential lessons, organizing demonstrations, using teaching aids, developing instructional materials, record keeping, evaluation of pupil progress.

7 0998 404
INSTRUCTIONAL MATERIAL DEVELOPMENT IN VOCATIONAL-TECHNICAL EDUCATION 3.0
Designed to assist the vocational-technical teacher to develop teaching aids of functional value to their field; opportunity for the teacher to gain skill and proficiency in the use of conventional audio-visual teaching aids, and in the development of job, operation, information and assignment sheets.

7 0998 408
VOCATIONAL-TECHNICAL IN-SERVICE SUPERVISED TEACHINGS AND SEMINAR 8.0
A two-part course which covers an academic year. The first part involves the student in a biweekly seminar and on-the-job supervision by the seminar instructor. The second part provides for on-the-job supervision and individual conferences. Both parts of the course must be completed before credit is awarded.

7 0998 409
VOCATIONAL GUIDANCE 3.0
Designed to acquaint teachers in vocational-technical education with the guidance program and to assist them in the guidance functions of classroom and shop.

7 0998 411
PRINCIPLES AND PHILOSOPHY OF VOCATIONAL EDUCATION 1.0
An overview of vocational education focusing on historical foundations, legislation, current problems and industry and government relationships.

Linguistics

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Milton S. Seegmiller

Because language penetrates nearly every facet of our existence, it is one of the most important of human activities. The courses in linguistics reflect this and explore the many aspects of language: its structure, its history, its relationship to society and to psychological processes, its role in shaping our attitudes, its use in literature, and many other topics.

The department offers general courses for non-majors and specialized courses for majors, as well as a minor program and a variety of courses for students in other fields. In addition, the department offers courses leading to certification in Teaching English as a Second Language (TESL).

Linguistics majors receive a Bachelor of Arts degree.

Linguistics Major

Required Courses

	Semester hours
1505 210 Introduction to General Linguistics	3
1505 230 Phonetics and Phonological Theory	3
1505 320 Transformational Grammar	3
1505 245 Language and Culture	3
or	
1505 330 Sociolinguistics	3

Electives (Departmental)

Select 21 semester hours from the appropriate list to be obtained from the department 21

Linguistics Minor

Required Course

	Semester Hours
1505 210 Introduction to General Linguistics	3

Electives

Select 15 semester hours from the appropriate list available from the department 15

Second Teaching Field in Teaching English as a Second Language

Required Courses

1505 210 Introduction to General Linguistics	3
1505 220 Structure of American English	3
1505 330 Sociolinguistics	3
1505 325 Applied Linguistics	3
1505 245 Language and Culture	3
0821 445 Puerto Rican Children in Mainland Schools	3
Bilingual/Bicultural Field Experience	3

1508 403	Methods and Materials of TESL	3
1508 430	Field Experience in TESL	3

Electives (Departmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Students specializing in TESL must give evidence of native or near-native competency in English, as determined by the Oral Language Proficiency Interview administered by the Linguistics department. Candidates for certification must also take a minimum of 3 semester hours of a foreign language.

Certification is also available for students who already hold a bachelor's degree.

Courses of Instruction

Q 1505 203
ANTHROPOLOGICAL LINGUISTICS 3.0
 Linguistic system through the use of informants (speakers) of non-Indo-European languages and through published data from a variety of Amerindian and African languages. The relationship of linguistic structure and theory to cultural systems.

Q 1505 210
INTRODUCTION TO GENERAL LINGUISTICS 3.0
 The nature and structure of language; the basic techniques for analyzing linguistic structures; phonological, syntactic and semantic structure of languages; language and dialects; language change; the comparative method in linguistics; human and animal communication; first and second language learning.

Q 1505 220
STRUCTURE OF AMERICAN ENGLISH 3.0
 The structure of American English; phonology, morphology, syntax; geographical and social dialects. Traditional, structural and transformational approaches to grammar.

Q 1505 230
PHONETICS AND PHONOLOGICAL THEORY 3.0
 How sounds are produced in various languages, their acoustic properties, classification and description. Workbook problems based on many languages.

Q 1505 245
LANGUAGE AND CULTURE 3.0
 Language in its cultural context. Relationship of linguistic to non-linguistic variables. Ethnosemantics, componential analysis, linguistic relativity principle.

Q 1505 250
LANGUAGE OF PROPAGANDA 3.0
 An examination of the ways in which speakers and writers manipulate language to influence our thinking, with special emphasis on how they exploit the grammatical possibilities of English. Political language, the language of advertising, innuendo, jargon, emotive language, etc.

Q 1505 255
WOMEN AND LANGUAGE 3.0
 A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on women and language plus practical experience in collecting and analyzing linguistic data.

Q 1505 260
DIALECTOLOGY 3.0
 Principles of dialect study, application to American dialects; the origin and development of American dialects in historical, literary, regional, social and urban perspectives.

Q 1505 284
THE ENGLISH LANGUAGE 3.0
 English from its Indo-European origins up to and including the eighteenth-century grammarians. The Germanic strains and the morphology of old and middle English.

Q 1505 290
LANGUAGE OF THE LAW 3.0
 The characteristic properties of legal English-both its linguistic structures and its social and psychological functions. Practice in analyzing and re-writing legal texts into plain English.

Q 1505 310
STRUCTURAL GRAMMAR 3.0
 Principles of structural grammar: word formation and overt sentence structure of familiar and exotic languages; segmentation and classification of meaningful elements according to specific formal criteria. Workbook problems based on many languages.

Q 1505 320
TRANSFORMATIONAL GRAMMAR 3.0
 An introduction to the transformational theory of Chomsky and his followers. Knowledge and performance in language; underlying and surface structures; the theory and goals of linguistic description. Workbook problems from various languages, but emphasis on English.

Q 1505 325
APPLIED LINGUISTICS 3.0
 Comparison of first and second language acquisition, bilingualism, dialectology, contrastive analysis, interference and interlanguage errors.

Q 1505 330
SOCIOLINGUISTICS 3.0
 Correlations between language varieties, their functions in particular settings, and the characteristics of their speakers. Emphasis on black English. The role of second languages within a society: Pidgins, Creoles, Lingua Francas, Diglossia, etc.

Q 1505 340
LINGUISTICS AND LITERARY ANALYSIS 3.0
 Contribution of linguistics to our understanding of the poetic process. Writing 'literary grammars' that account for our intuitions about the poetic or prose style of author, literary work or genre. Contributions of transformational grammar to the problems of style. Transformational grammar and metrics.

Q 1505 370
COMPARATIVE AND HISTORICAL LINGUISTICS 3.0
 Similarities and differences among languages and language families at one point in time and as these develop in time; reconstructing the common ancestor of related languages and determining general laws of linguistic change.

Q 1505 430
FIELD METHODS 3.0
 Collecting linguistic data from an informant; human factors in field work; qualifications of the informant; elicitation techniques.

Q 1505 450
SELECTED TOPICS IN LINGUISTICS 3.0
 Study of special problems and topics in linguistics. Topics announced each semester.
Prerequisite: Q 1505 210 or equivalent and permission of instructor.

Q 1505 478, 479
INDEPENDENT STUDY 3.0 each
 This course is designed: (1) to allow students to explore areas of linguistics that are not covered in the normal course offerings of the department; (2) to permit an in-depth analysis of a given subject beyond the scope of a regular semester course; or (3) to provide advanced students with the pos-

sibility of research in areas of linguistics that are of special interest to them.

Prerequisite: Q 1505 210 and permission of instructor.

Q 1505 480
LINGUISTICS IN EDUCATION AND SOCIETY 3.0

The course is intended to acquaint students involved in language education with the applications and implications of linguistics for education and for understanding the functioning of language in society.

Q 1508 151
INTENSIVE ESOL I 6.0

The course aims to develop all four language skills: listening, speaking, reading, writing. This course will emphasize listening comprehension and speaking. Language laboratory is required. This class will meet twice a week for two and a half hours each session and two hours language laboratory practice each session. The same instructor will conduct both sessions.

Prerequisite: Comprehensive English language test (CELT) for diagnostic and placement purposes.

Q 1508 152
INTENSIVE ESOL II 3.0

The course aims to continue the development of all four skills: listening, speaking, reading, writing, with special emphasis on reading and vocabulary development. This class will meet once a week for two and one half hours and two hours laboratory practice.

Prerequisite: Q 1508 151 or equivalent.

Q 1508 153
INTENSIVE ESOL III 3.0

The general aim of this course is to bring non-native speakers of English to a level of competency at which they can successfully compete in the regular college classroom with native speakers of English in the basic skills of reading and writing standard English. The emphasis will be on written skills.

Prerequisite: Q 1508 152 or equivalent.

Q 1508 154
INTENSIVE ESOL IV ADVANCED COMPOSITION 3.0

Prepares non-native speakers of English for the writing of academic research papers, selecting and writing the topic, library research methods, documentations, preparing and revising a rough draft.

Prerequisite: Q 1508 153.

Q 1508 310
ESOL-ADVANCED ORAL SKILLS 3.0

The course is designed to improve the oral language skills of non-native English speakers whose background has emphasized the skills of reading and writing. The course is intended to help develop oral proficiency in students whose oral comprehension and ability to make themselves understood is weak. The course will concentrate on skill of speaking.

Q 1508 311
ESOL-ADVANCED LISTENING SKILLS 3.0

This course is designed to improve the comprehension of spoken English by the non-native speaker whose writing and speaking are acceptable but who has difficulty following classroom lectures and conversations among English speakers.

Q 1508 403
METHODS AND MATERIALS OF TESL 3.0

The theory and practice of ESL instruction covering the major methodologies, planning lessons, testing language skills, selecting and developing materials, and related topics.

Q 1508 430
FIELD EXPERIENCE IN TEACHING ENGLISH AS A SECOND LANGUAGE 3.0

Opportunity to teach English as a second language will be arranged for each student in the program.

Q 2001 250
PSYCHOLINGUISTICS 3.0

The study of language through linguistic, behavioral and cognitive methods. Basic linguistic ideas for the explication of problems in grammar, cognitive structure, semantic meaning and speech production and comprehension.

Prerequisites: T 2001 105 and instructor's permission.

Management

SCHOOL OF BUSINESS ADMINISTRATION

Chairperson: Elmer Waters

Students whose concentration is in management learn about the actual operation of a business organization and how to be a business leader. Managers must develop many kinds of skills. For example, they should have an understanding of human behavior in organizations, the ways in which computers can aid in decision-making, the relationship of business firms to government and society, and how international business firms operate.

The concentration in management provides professional education in organization theory and behavior, the management of human resources, operations, and production and information systems. It also supplies a good background in systems design and analysis as well as in decision making in an environment of risk and uncertainty.

The department offers a Bachelor of Science degree in business administration with a concentration in management.

Business Administration Major

Required Courses

	Semester Hours
0502 201 Fundamentals of Accounting I	3
0502 202 Fundamentals of Accounting II	3
0501 261 Legal Environment of Business I	3
0503 270 Statistics for Business	4
0506 311 Management Process and Organizational Behavior	4
0504 321 Fundamentals of Finance	3
0509 340 Introduction to Marketing	3
0503 372 Management Science	4
0506 439 Business Policy	3
0503 463 Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113 Mathematics for Business I	3
1701 114 Mathematics for Business II	3
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3

Concentration Within the Major

Management

Required Courses

	Semester hours
0506 316 Human Resource Management	3

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Courses of Instruction

E 0506 273

INTRODUCTION TO BUSINESS DATA PROCESSING 3.0
Computers used in developing business information systems. Topics include: history of data processing and information systems, needs of high speed equipment, numbering systems, data representation, programming concept, and use of business application program. (Alternate: Y 0701 260).

E 0506 310

THE MANAGEMENT PROCESS 3.0
The field of management theory and practice; Classic principles and the behavioral aspects of organization life, especially motivation and interpersonal relationships. Quantitative tools as decision aids, especially in production and operations. Non-business majors only.

E 0506 311

MANAGEMENT PROCESS AND ORGANIZATIONAL BEHAVIOR 4.0
To provide undergraduate students a review of classical and modern approaches to the managerial process as it relates to the manager's functions of planning, organizing, staffing, leading, and controlling. These reviews will be tied to the open-system model and the contingency approach as an overall framework for understanding the management of organizations.

E 0506 315

ORGANIZATIONAL BEHAVIOR 3.0
Major approaches to the study of organizations. Organizational systems and structure, systems of communication, power and influence, organizational conflict, coordination and evaluation, and overall organizational development particularly with minority group members and female employees. Non-business majors only.
Prerequisite: E 0506 310.

E 0506 316

HUMAN RESOURCE MANAGEMENT 3.0
Motivating managerial and non-managerial employees. Effective use of human resources in the organization. The personnel function, techniques of job analysis, description and evaluation, and overall organizational development particularly with minority group members and female employees.
Prerequisite: E 0506 311.

E 0506 317

MOTIVATION AND LEADERSHIP 3.0
In-depth analysis of the human element. Analytical models to assist in the solution of leadership problems in an organizational context. Techniques of analysis and the psychology of self-esteem. Motivational problems facing first-line, middle, and top level managers in professional and nonprofessional work activities. The development of skills for practical application. Case studies.
Prerequisite: E 0506 311.

E 0506 327

EMPLOYEE TRAINING 3.0
Training as a systematic approach to develop specific human resource needs of organizations is addressed in terms of needs assessment program development, training techniques, and evaluation. Applications in business, health care, and government organizations are considered.
Prerequisite: E 0506 311.

E 0506 332

MINORITIES IN BUSINESS 3.0
Methods and techniques for solving problems minority group members may encounter in business. New or existing personnel in managerial and non-managerial positions in established firms. Minority group members as entrepreneurs. Relationships with other members of an organization.
Prerequisites: E 0506 311, F 0509 340.

E 0506 335

SMALL BUSINESS MANAGEMENT 3.0
The problems and opportunities of starting and operating a small business. Capital accumulation, adapting technologies to specialized needs, assessing local market opportunities, governmental aids, establishing working relationships with large organizations and problems of growth.
Prerequisites: E 0506 311, F 0509 340, D 0504 321.

E 0506 336

INTERNATIONAL BUSINESS MANAGEMENT 3.0
General theory on international trade. The mechanisms of international balance of payments, and the procedures involved in international trade practices. The theory of comparative advantage, tariff system, international trade policy and monetary systems, balance of payment adjustment, flows of capital, development of market abroad, financing of international trade and handling of export shipment.
Prerequisites: C 2204 102, E 0506 311.

E 0506 363

BUSINESS AND SOCIETY 3.0
Business as an institution in our pluralistic society. Its relationship with other societal elements such as government, academia, labor and the consumer. American business past, present and future. Strengths, weaknesses and overall contribution to society. Ecology, minority groups and the quantity and quality of economic growth.

E 0506 371

MANAGEMENT INFORMATION SYSTEMS 3.0
Total information systems from the perspective of organizations. Information from the management point of view. Its needs, cost and value. Definition and analysis in the solution of systems problems. The computer as a tool of processing accounting, marketing and financial information for decision making and policy setting. Work in field, majors only.
Prerequisites: A 0502 202, D 0503 270, E 0506 311, instructor's permission.

E 0506 414

MANAGEMENT THEORIES: BEHAVIORAL APPROACHES 3.0
Advanced analysis of the most recent developments in the behavioral sciences as a basis for practical applications in the management of organizations. Special emphasis on techniques drawn from several behavioral models including approaches such as transactional analysis and behavior modification.
Prerequisite: E 0506 311.

E 0506 415

ORGANIZATIONAL THEORY: MACRO APPROACHES 3.0
A detailed analysis using the most up-to-date theories in the field of organizational analysis as it pertains to the management of organizations. Emphasis is placed on the application and understanding of macro models of human behavior in organizations to include such approaches as natural, rational and open systems models.

E 0506 416

PROBLEMS IN HUMAN RESOURCES MANAGEMENT 3.0
A review of the principal personnel functions with respect to current research from the behavioral sciences that impact human resources management practices. Emphasis is on the solution of typical problems and the making of sound personnel decisions based on legal cases; scientific results relative to selection, tracking, performance appraisal, manpower planning and compensation.
Prerequisites: E 0506 316, Management majors only.

E0506 417
COMPENSATION MANAGEMENT 3.0
 Theory and practice in employee wage and salary administration in both business and non-business organization. Traditional job evaluation methods and survey techniques are presented with emphasis on both the economic and behavioral effects of compensation practices.
Prerequisites: E 0506 316, majors only.

E 0506 431
MIDDLE AND FIRST LINE MANAGEMENT 3.0
 The specific functions which middle and first line managers must perform in a production operation. Designed so that the student upon graduation can move directly into a management position. The effects of change in management philosophies and the need to acquaint the student with these changes.
Prerequisites: E 0506 311, A 0502 202.

E 0506 433
ENTREPRENEURSHIP AND INNOVATION 3.0
 Attitudes and perspectives for effecting meaningful and profitable change. Concepts of creativity, optimum use of resources, and the impact of technological change. Anticipating needs and wants of all groups influenced by the enterprise. Examples of successful entrepreneurship, role-playing and situational exercises.
Prerequisite: E 0506 311.

E 0506 434
COMPARATIVE MANAGEMENT SYSTEMS 3.0
 Multinational corporations expanding into areas with new sociological and cultural constraints. Problems of management in the public sector as contrasted with the private sector. Management in newly developed economies, and in highly industrialized economies. Public corporations, non-profit organizations, mixed enterprise.
Prerequisite: E 0506 311.

E 0506 435
ORGANIZATIONAL DEVELOPMENT AND CHANGE 3.0
 The purpose of this course is to develop an understanding of and some skill in the process of planning, introducing, and managing change in organizations. Considerable time will be devoted to the role of the manager as a change agent. Cases and experiential exercises will be used to illustrate the various phases of the change process as well as the different change techniques available.
Prerequisites: E 0506 311, majors only, instructor's permission.

E 0506 439
BUSINESS POLICY 3.0
 Establishing and implementing corporate goals. The firm as a collection of internal and external objectives. Information from functional areas analyzed along the lines of departmental activities. Decision making under conditions of risk and uncertainty. Planning and strategy in a changing environment. Reconciling departmental goals and company objectives through the systems approach. The effects of corporate decisions on public policy. Case studies and simulation games.

E 0506 491
BUSINESS PROBLEMS 3.0
 The problems approach to business ownership, finances, location and layouts, purchasing, personnel and managerial controls. Can be used as an independent study course for not more than two times.
Prerequisite: Permission of the department chairperson.

E0506 492
SELECTED TOPICS IN ADMINISTRATIVE SCIENCES 1.0-3.0
 Professional inquiry into the study of a selected issue, problem or trend in accounting, finance, management and organizational behavior, marketing, quantitative analysis, and general business.

E 0506 499
HONORS SEMINAR 3.0
 Opportunity for a select number of students to study management issues in a small, intimate classroom environment. Students will be given a broad range of opportunities for exploration of the literature as well as investigation of the problems selected out for detailed study.

Marketing

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Ralph DiPietro

Marketing attempts to meet the needs of an ever changing environment by taking all necessary steps to get a product from the producer to the consumer. Research and product planning are just a few important stages a product goes through before it is made.

The marketing concentration provides students with a knowledge of the theoretical and practical aspects of the subject. Courses in advertising, consumer behavior, sales promotion, and marketing research and strategies prepare students for entry level positions and for potential advancement in marketing and sales careers. Additional courses will expand student awareness of international opportunities, and a well chosen sequence of courses sharpens analytical, creative, and decision-making skills.

The department offers a Bachelor of Science degree in business administration with a marketing concentration.

Business Administration

Required Courses

	Semester Hours
0502 201 Fundamentals of Accounting I	3
0502 202 Fundamentals of Accounting II	3
0501 261 Legal Environment of Business I	3
0503 270 Statistics for Business	4
0506 311 Management Process and Organizational Behavior	4
0504 321 Fundamentals of Finance	3
0509 340 Introduction to Marketing	3
0503 372 Management Science	4
0506 439 Business Policy	3
0503 463 Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113 Mathematics for Business I	3
1701 114 Mathematics for Business II	3
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3

Concentration Within the Major

Marketing

Required Courses

0509 341 Consumer Behavior
 OR

0509 443	Industrial Marketing	3
0509 442	Marketing Research	3
0509 446	Marketing Strategy and Implementation	3

Electives (Departmental)

Select any advanced marketing course from the appropriate list obtained from the department 3

Courses of Instruction

F 0509 340 3.0 INTRODUCTION TO MARKETING

The role of marketing. Significance of marketing decisions to overall performance. Behavioral aspects of marketing, the impact of consumer behavior in purchase decisions, special problems of industrial marketing, the consumer movement and formal and informal societal constraints on marketing practices.

F 0509 341 3.0 CONSUMER BEHAVIOR

Industrial and consumer buying behavior. The user of consumer products. Behavioral science findings, marketing research techniques and consumer attitudes. Socio-economic and demographic variables.
Prerequisite: F 0509 340.

F 0509 342 3.0 SALES CONCEPTS AND PRACTICES

An analysis of the complete personal selling function from the perspective of one organization selling to another. Topics dealing with both the actual mechanics of the selling process and the management of the process and its actors are included.
Prerequisite: F 0509 340.

F 0509 344 3.0 ADVERTISING MEDIA

An opportunity to study advertising media such as newspapers, magazines, radio, television and direct mail and to evaluate their effectiveness in terms of campaigns.
Prerequisite: F 0509 340.

F 0509 349 3.0 INTERNATIONAL MARKETING

The importance of international marketing for the U.S. Environmental conditions and controlling factors. Development of foreign markets and selection of appropriate organizational means. Introduction into the mechanics of import and export. Manufacture abroad. Multinational companies.
Prerequisite: F 0509 340.

F 0509 442 3.0 MARKETING RESEARCH

A broad management perspective on market research methodology. A systems approach, collection and analysis of facts, opinions, forecasts, etc., for determining marketing strategies. Research techniques and designs, tabulation and report presentation.
Prerequisite: F 0509 340, D 0503 270.

F 0509 443 3.0 INDUSTRIAL MARKETING

A study of the various problems faced by organizations who market goods and services consumed by other organizations. A managerial focus based on an understanding of organizational buying activities is stressed.
Prerequisites: F 0509 340, 341, majors only, instructor's permission.

F 0509 446 3.0 MARKETING STRATEGY AND IMPLEMENTATION

Relationship of marketing to the activity of the firm from the theoretical and practical perspectives. The variables of marketing decision making. Sophisticated techniques for problem solving. Case studies help to develop an analytical posture in marketing planning.

Prerequisite: F 0509 442. To be taken in senior year.

F 0509 464 3.0 LEGAL PROBLEMS OF THE MARKETING PROCESS

The historic and social relationships of law and marketing. The legal framework including (1) the relationship of administrative agencies to enforcement of legislative policy, (2) governmental regulation of anti-competitive business behavior, (3) regulations protecting consumers and (4) regulations protecting the use of intellectual property. Legal problems of international marketing and distribution.

Prerequisites: A 0501 261, F 0509 340.

F 0509 499 3.0 CURRENT TOPICS IN MARKETING

Honors, seminar, current topics in marketing. Problems and opportunities in marketing management.

Prerequisites: F 0509 340, 442 (or concurrently), instructor's permission.

Mathematics and Computer Science

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

Chairperson: Kenneth C. Wolff

Mathematics and computer science are essential areas of knowledge in the modern technological world. In order to equip students with proper skills, the department offers a major and a minor program in mathematics and a major and a minor program in computer science. In addition the department offers a concentration in applied mathematics. Both major programs lead to a Bachelor of Science degree. With the proper choice of elective courses, a student may prepare for graduate study or for work in a variety of fields such as computer science, statistics, actuarial science and management science. There is an honors program in mathematics for qualified students.

It is possible to pursue a dual major program, mathematics and computer science. This can be arranged with the advice of the chairperson. A student who is interested in advanced placement or who has questions about qualifications for placement in calculus should contact the chairperson for the proper information.

Mathematics Major

Required Courses

1701 122	Calculus I	4
1701 221	Calculus II	4
1701 222	Calculus III	4
1701 335	Elements of Linear Algebra	3
1701 340	Probability	3

Collateral Courses

0701 183	Foundations of Computer Science I	3
1902 191, 192	General Physics I, II	8

Electives

Select 18 semester hours from the appropriate list to be obtained from the department 18

Mathematics Minor

Students may earn a minor in the field of mathematics by completing an approved 18 semester hour program in mathematics. See the department for specific requirements.

Applied Mathematics Concentration

See the department for specific details about this program.

Teacher Certification

Students desiring teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. The specific mathematics courses needed for certification should be obtained from the department.

Second Teaching Field in Mathematics

Those students majoring in another field who wish to teach mathematics as a second field must take an approved 24 semester hour program in mathematics as well as their major field requirements.

Computer Science Major

Required Courses

0701 183	Foundations of Computer Science I	3
0701 184	Foundations of Computer Science II	3
0701 261	Computer Applications I: Data Processing	3
0701 280	Assembly Language and Machine Organization I	3
0701 281	Assembly Language and Machine Organization II	3
0701 285	Discrete Math Structures	3

Collateral Courses

1701 122, 221, 222	Calculus I, II, III	4
and		

One of these five sequences

1. 1902 191, 192	General Physics I, II	4 ea.
2. 1905 120, 121	General Chemistry I, II	4 ea.

3. Select two courses

0401 121	Plant Kingdom	4 ea.
0401 130	Invertebrate Zoology	4 ea.
0401 131	Vertebrate Zoology	4 ea.
0401 140	Biology of the Cell	4 ea.
0401 212	Genetics, Individual and Society	3 ea.
4. 0502 201, 202	Fundamentals of Accounting I, II	3 ea.
0506 310	The Management Process	3 ea.
5. 2204 101, 102	Principles of Economics: Macro, Micro	3 ea.
0506 310	The Management Process	3 ea.

Note: The department recommends that students consider taking a second and possibly third sequence in collateral courses, as well as advanced writing skills – technical and scientific. Independent study in advanced areas is available. See the department chairperson for information.

Electives

Select 18 semester hours from the appropriate list to be obtained from the department 18

Computer Science Minor

Students may earn a minor in computer science by satisfactorily completing an 18 semester hour program which includes Y 1701 183, 184, and 261. At least 9 semester hours must be taken at Montclair State College. At least 6 semester hours must be taken above the 280 level

Courses of Instruction

Y 0701 107	COMPUTERS AND SOCIETY	2.0
The impact of the digital computer on modern society. The effect of information processing in the social and political spheres and the relation of computer information processing to human thought. Not for math/science majors.		

Y 0701 108	COMPUTERS AND PROGRAMMING	3.0
Develops programming competence in the BASIC language and the use of stored library programs. Problems will be primarily of a non-mathematical nature. Not for math/science majors.		

Y 0701 183	FOUNDATIONS OF COMPUTER SCIENCE I	3.0
Basic theory of digital computers. Syntax and semantics of a programming language. Algorithms: logic, design, testing and documentation. Majors only.		
<i>Prerequisite: Y 1701 115.</i>		

Y 0701 184	FOUNDATIONS OF COMPUTER SCIENCE II	3.0
Continuation of Y 0701 183. Algorithm development involving user functions; subroutines, recursions, structures file manipulation. Majors only.		
<i>Prerequisite: Y 0701 183.</i>		

Y 0701 261	COMPUTER APPLICATIONS I: DATA PROCESSING	3.0
Applications in accounts receivable, payroll and inventory. Language COBOL. Card, tape, and disc files.		
<i>Prerequisite: Y 0701 183.</i>		

Y 0701 273	INTRODUCTION TO BUSINESS DATA PROCESSING	3.0
Emphasis is on the business application of a modern computer using COBOL. May not be taken for credit by students who have received credit for Y 0701 183 or equivalent. Not for math/science majors.		

Y 0701 280	ASSEMBLY LANGUAGE AND MACHINE ORGANIZATION I	3.0
Computer structures, introduction to assembler language, subroutine linkage, conversions, input/output instructions.		
<i>Prerequisite: Y 0701 184</i>		

Y 0701 281	ASSEMBLY LANGUAGE AND MACHINE ORGANIZATION II	3.0
This course is intended to give the student an in-depth understanding of the architecture and design of a modern computer. Topics: microprocessors and input/output systems and moving on to more specialized topics involving stack, parallel, overlap and pipeline processing.		
<i>Prerequisite: Y 0701 280.</i>		

Y 0701 285
DISCRETE MATH STRUCTURES 3.0
 The structures include sets, graphs, digraphs, trees, networks, lattices, matrices, semigroups, and groups. Many practical business and scientific problems can be posed and solved by the use of these structures.
Prerequisite: Y 0701 184, majors only.

Y 0701 286
INTRODUCTION TO NUMERICAL COMPUTING 3.0
 Fundamentals of numerical computation, with emphasis on basic algorithms and their efficient implementation; appropriate treatment of theoretical bases. Topics include floating point arithmetic, round off error and propagation, numerical solution of non-linear equations, interpolation and approximation, and numerical integration. The FORTRAN language will be taught and used in programming assignments.
Prerequisites: Y 0701 183, Y 1701 122 (corequisite).

Y 0701 381
COMPUTER APPLICATIONS II-FILE PROCESSING 3.0
 Advanced techniques in data processing including modular programming, debugging language, table handling, subscription and indexing, variable length records and tables, declarations and linkages, report generation, tape and disc file processing. Searching, sorting, updating and retrieving from files. Sequential, indexed sequential and direct-access file organization. The programming language will be COBOL.
Prerequisite: Y 0701 261.

Y 0701 382
COMPUTER APPLICATIONS III-SYSTEMS ANALYSIS 3.0
 A major project includes forms design, sequential files, files, merge, sort, and editing programs.
Prerequisite: Y 0701 261.

Y 0701 383
DATA STRUCTURES 3.0
 Data structures including linear lists, strings, trees, chains, paging, data base design, storage systems, and structures.
Prerequisites: Y 0701 280, 285.

Y 0701 385
MICROCOMPUTERS 3.0
 Introduction to chip technology, microprocessors, microcomputers, architecture, instruction sets and programming of microcomputers.
Prerequisite: Y 0701 280.

Y 0701 386
COMPUTER CIRCUITS AND INTERFACES 3.0
 Basic digital and analog computer circuits and interface circuits. Computer-telecommunications interfaces.
Prerequisite: Y 1701 385.

Y 0701 481
OPERATING SYSTEMS 3.0
 System architecture; DOS, OS systems; multi-programming; virtual storage.
Prerequisite: Y 0701 383.

Y 0701 483
COMPUTER APPLICATIONS IV-DATA BASES 3.0
 A comprehensive collection of data base organizations and design tools. File organizations and evaluations, database structures, schemata and implementations. Database security, operations and management.
Prerequisite: Y 0701 381.

Y 0701 484
FUNDAMENTALS OF PROGRAMMING LANGUAGES 3.0
 Syntax and semantics of programming languages. Principles of compilers and compiler constructions, including object code generation.
Prerequisite: Y 0701 383.

Y 0701 485
COMPILER CONSTRUCTION 3.0
 Introduction to the concepts and techniques used in the description of programming languages and in the construction of compilers.
Prerequisite: Y 0701 383.

Y 0701 497
UNDERGRADUATE RESEARCH IN COMPUTER SCIENCE I 1.0-3.0
 Individual research in areas of computer science agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses: Y 0701 497, 498, Y 1701 497, 498.

Y 0701 498
UNDERGRADUATE RESEARCH IN COMPUTER SCIENCE II 1.0-3.0
 Individual research in areas of computer science agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses: Y 0701 497, 498, Y 1701 497, 498.

Y 0701 499
COOPERATIVE EDUCATION IN COMPUTER SCIENCE 3.0-8.0
 The study of theoretical ideas of computer science combined with their practical applications in a real life environment. The co-op experience is a semester working off campus under the guidance of a company supervisor and a faculty supervisor. Only 3 of the 8 credits may be used to fulfill the major requirement.
Prerequisite: Approval of faculty coordinator and co-op office.

Y 1701 050
DEVELOPMENTAL MATH I-COMPUTATION AND ELEMENTARY ALGEBRA 3.0
 Fundamental operations of integers, fractions, decimals. Estimation interpretation of graphs and charts. Problem solving. Use of hand-held calculators. Credits not useable toward graduation.

Y 1701 051
DEVELOPMENTAL MATH II-ALGEBRA 3.0
 Basic elementary algebra course. Includes fundamental algebraic processes, linear and quadratic equations, graphing and applications. Credits not useable toward graduation.

Y 1701 101
INTRODUCTION TO MODERN MATH I 3.0
 For students with a major interest in fields other than mathematics and science. Emphasis is on basic concepts rather than on formal manipulative skills. Topics include sets, logic, finite mathematics, systems of numeration, and properties of sets of numbers. Not for math/science majors.

Y 1701 103
THE DEVELOPMENT OF MATHEMATICS 3.0
 The growth and development of mathematics from ancient to modern times. Contributions of the great mathematicians. Not for math/science majors.

Y 1701 109
STATISTICS 3.0
 Introduction to the use and misuse of statistics. Topics include analysis and presentation of data, variability and uncertainty in data, techniques of statistical inference and decision making. Not for mathematics majors.

Y 1701 110
INTERMEDIATE ALGEBRA 3.0
 Topics include sets, relations, functions, development of number systems and algebraic operations. Students who received high school credit for intermediate algebra may not receive degree credit for Y 1701 110. Not for math/science majors.

- Y 1701 113**
MATHEMATICS FOR BUSINESS I: LINEAR ALGEBRA 3.0
 Matrices, linear programming, probability and statistics.
Prerequisite: Y 1701 051 or satisfactory performance on NJCBSPT and 3 years of high school mathematics.
- Y 1701 114**
MATHEMATICS FOR BUSINESS II: CALCULUS 3.0
 The general aim of this course is to introduce the students to the basic skills of differentiation, integration, maxima-minima problems and several of the other applications of calculus, including modeling, especially models in business and economics.
Prerequisite: Y 1701 113.
- Y 1701 115**
PRECALCULUS MATHEMATICS 3.0
 Elements of sets, relations and functions, circular functions, plane analytic geometry including conic sections, logarithmic and exponential functions.
Prerequisite: 3 years of high school math or equivalent.
- Y 1701 116**
CALCULUS A 4.0
 Differentiation and integration of functions, including trigonometric functions. Applications to biology and geoscience. Not for math, chemistry or physics majors.
Prerequisite: Y 1701 115.
- Y 1701 117**
MATHEMATICS AND COMPUTER SCIENCE FOR THE LIFE SCIENCES I 3.0
 Descriptive statistics; counting techniques-permutations; combinations; sets; probability and probability distributions; tree diagrams; introduction to the BASIC language; simulation; role of computers in society. Applications include genetics, ecology, biochemistry, and population growth.
Prerequisite: Y 1701 051 or satisfactory performance on NJCBSPT.
- Y 1701 118**
MATHEMATICS AND COMPUTER SCIENCE FOR THE LIFE SCIENCES II 3.0
 Mathematical models; hypothesis testing; genetics models; diversity in populations; randomness; contingency tables; regression analysis; tests of biological models. Methods of course applied to real biological data throughout with microcomputers used as a tool.
Prerequisite: Y 1701 117.
- Y 1701 122**
CALCULUS I 4.0
 Limits, continuity, derivatives and differentiation. Anti-differentiation. Maxima, minima, and extreme considerations. Differentials and related rates.
Prerequisite: Y 1701 115.
- Y 1701 195**
REASONING AND PROBLEM ANALYSIS FOR PRE-LAW AND PARALEGAL STUDENTS 3.0
 Mathematical problem analysis, reasoning and proof applicable and transferable to law school study, including analysis of legal decision making.
Prerequisite: Working knowledge of high school algebra and geometry.
- Y 1701 196**
THE LEGAL ENVIRONMENT OF COMPUTER AND COMPUTER PROGRAMMING 3.0
 To provide knowledge of the legal environment that surrounds the computer science industry and consider the legal consequences of actions by data processing personnel and computer programmers.
Prerequisite: Working knowledge of computers and/or computer programming.
- Y 1701 221**
CALCULUS II 4.0
 Riemann integral applications, transcendental functions, techniques of integration, polar coordinates, improper integrals, L'Hospital's rule.
Prerequisite: Y 1701 122.
- Y 1701 222**
CALCULUS III 4.0
 Partial differentiation, multiple integration, infinite series, vector calculus.
Prerequisite: Y 1701 221.
- Y 1701 242**
BIOSTATISTICS 3.0
 Applications of statistical methods to toxicology. Experimental design, descriptive statistics, random sampling, estimation, inference, hypothesis testing: one and two sample test; ANOVA, quality control, regression and bio-assay. Microcomputer and statistical packages. Not for math or computer science majors.
Prerequisite: Y 1701 122.
- Y 1701 270**
STATISTICS FOR BUSINESS 4.0
 Modern statistical methods and decision making. Topics covered include descriptive statistics, probability theory, estimation, sampling, hypothesis testing, non-parametric methods, regression and time series analysis. Not for math/science majors or students who have taken D 0503 270.
- Y 1701 289**
INTRODUCTION TO APL 3.0
 Develops programming competence in the APL language. APL is an acronym for a programming language. Applications in the field of science, mathematics, and business. Free elective credit only.
- Y 1701 335**
ELEMENTS OF LINEAR ALGEBRA 3.0
 Vectors, vector spaces, systems of linear equations, matrices, determinants and linear transformations.
Prerequisite: Y 1701 222.
- Y 1701 340**
PROBABILITY 3.0
 Chance and variability, elements of combinatorics, Bayes' theorem, random variables, binomial. Poisson and normal distributions, applications to statistics.
Prerequisite: Y 1701 221.
- Y 1701 350**
COLLEGE GEOMETRY 3.0
 Study of Euclidean and other geometries from an axiomatic point of view.
Prerequisites: Y 1701 221.
- Y 1701 398**
VECTOR CALCULUS 3.0
 Topics include the algebra of the differential and integral, gradients, divergence and curl of a vector field, and integral theorems together with applications drawn from the physical sciences.
Prerequisite: Y 1701 222.
- Y 1701 403**
TECHNIQUES AND APPLICATIONS OF STATISTICS 3.0
 Statistical techniques for the social and behavioral sciences including estimation, tests of hypothesis, non-parametric statistics, regression and correlation. May not be taken for credit by mathematics majors.
- Y 1701 420**
DIFFERENTIAL EQUATIONS 3.0
 Linear differential equations, exact and total differential equations, simultaneous equations, numerical approximations, series solutions.
Prerequisite: Y 1701 335.

Y 1701 423
INTRODUCTION TO COMPLEX VARIABLES 3.0
 This course is a study of the arithmetic and algebra of complex numbers, and an introduction to the differentiation and integration of complex functions. Topics include rectangular and polar form of complex numbers, algebra of complex numbers, differentiation, Cauchy-Riemann equations, and contour integrals.
Prerequisite: Y 1701 222.

Y 1701 425
ADVANCED CALCULUS I 3.0
 Properties of the real number system, limits, continuous functions, intermediate value theorem, derivative, mean value theorem, Riemann integral.
Prerequisite: Y 1701 222.

Y 1701 426
ADVANCED CALCULUS II 3.0
 Functions of several variables, partial derivatives, Green's theorem, Stoke's theorem, divergence theorem, implicit function theorem, inverse function theorem, infinite series, uniform convergence.
Prerequisite: Y 1701 425.

Y 1701 428
INTRODUCTION TO TOPOLOGY 3.0
 Topological spaces, metric spaces, continuity compactness, connectedness, and separability properties. Topological generalizations of basic continuity theorems of advanced calculus.
Prerequisite: Y 1701 425.

Y 1701 431
FOUNDATIONS OF MODERN ALGEBRA 3.0
 Fundamental concepts of algebra including groups, rings, integral domains and fields, with important examples.
Prerequisite: Y 1701 335.

Y 1701 433
THEORY OF NUMBERS 3.0
 Properties of integers, congruences, quadratic reciprocity law, primitive roots, diophantine equations, continued fractions, algebraic numbers, lattice points and partitions.
Prerequisite: Y 1701 221.

Y 1701 436
ELEMENTS OF LOGIC 3.0
 Deduction, propositional functions, quantifiers, consistency, decision problems and Goedel's theorem.
Prerequisite: Y 1701 221.

Y 1701 440
STATISTICAL METHODS FOR RESEARCH 3.0
 Applications of statistical methods. Estimation, hypothesis testing, inference, enumeration data, correlation, regression, analysis of variance, nonparametric methods and elementary experimental design.
Prerequisite: Y 1701 340.

Y 1701 443
INTRODUCTION TO MATHEMATICAL STATISTICS 3.0
 Develops statistical methods from probability theory. Topics discrete and continuous probability distributions, estimation, inference and hypothesis testing.
Prerequisite: Y 1701 440.

Y 1701 450
FOUNDATIONS OF GEOMETRY 3.0
 Groups of transformations, an introduction to projective geometry.
Prerequisite: Y 1701 221.

Y 1701 460
INTRODUCTION TO APPLIED MATHEMATICS 3.0
 Solutions to problems in the real world. Vectors, matrices, series, periodic motion, theory of relativity and Fourier series.
Prerequisite: Y 1701 222.

Y 1701 463
INTRODUCTION TO NUMERICAL ANALYSIS 3.0
 Finite differences, approximation theory, linear and non-linear equations, error analysis.
Prerequisites: Y 1701 183, 335.

Y 1701 464
OPERATIONS RESEARCH I 3.0
 Linear programming, transportation problem, assignment problem, duality, sensitivity analysis, network flows, dynamic programming, nonlinear programming, integer programming.
Prerequisite: Y 1701 335.

Y 1701 465
OPERATIONS RESEARCH II 3.0
 Game theory, queuing models, inventory models, Markov processes, reliability theory and applications.
Prerequisites: Y 1701 464, 340.

Y 1701 469
MATHEMATICAL MODELING 3.0
 The art of constructing mathematical models for "real world" problems, solving the model, and testing the accuracy of the model. Problems will be selected from business, science, computer science, engineering, and the social sciences.
Prerequisites: Y 1701 335 and 340; and either 440 or 464.

Y 1701 470
TEACHING OF MATHEMATICS 3.0
 Selection, organization and presentation of elementary and secondary mathematics. Classroom activities, lesson planning, motivation, evaluation, multi-sensory aids and principles of learning.
Prerequisite: Admission to teacher education program.

Y 1701 471
SELECTED TOPICS IN MODERN MATHEMATICS 3.0
 Professionalized view of junior and senior high school mathematics topics. Functions, real and complex numbers, analytic geometry, absolute value and inequalities, sets and logic, flow charting, linear programming.
Prerequisite: Admission to teacher education program.

Y 1701 490
HONORS SEMINAR 3.0
 This course will concentrate on subject matter not usually covered within other standard mathematics courses.
Prerequisite: Y 1701 222.

Y 1701 495, 496
SEMINAR IN MATHEMATICS I, II 1.0-3.0 each
 Students may do independent work in advanced topics under the supervision of an instructor.

Y 1701 497, 498
UNDERGRADUATE RESEARCH IN MATHEMATICS I, II 1.0-3.0 each
 Individual research in a mathematical area agreed upon by the student and the instructor. The results of the research will be a basis of a seminar colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses Y 0701, 497, 498, Y 1701 497, 498.
Prerequisites: Y 1701 335, majors only, instructor's permission.

Music

SCHOOL OF FINE AND PERFORMING ARTS

Chairperson: Ting Ho

The department of Music stresses performance skills, breadth of musical understanding and work in the liberal arts. The department is accredited by both the National Association of Schools of Music and the National Association for Music Therapy. Two degrees are offered, the Bachelor of Music and the Bachelor of Arts.

Concentrations available within the Bachelor of Music program are Performance and Theory/Composition. Concentrations within the Bachelor of Arts program in Music are Music Education and Music History.

A Bachelor of Arts in Music Therapy is also offered.

Entrance Requirements

General

Those who wish to major in music must have an interview and an audition on a primary instrument (including voice). Prospective music majors should be able to show musicality, primary and secondary performing skills and knowledge of elementary music theory. It is important to have studied music seriously throughout high school. Participation in choral and/or instrumental groups and piano study are highly recommended for all applicants.

Applied Music

Secondary Instruments

- All non-keyboard majors must study secondary piano or pass qualifying examinations in piano.
- Placement in any other secondary instruments is by audition.
- Admission to secondary voice study is upon demonstration of ability to sing an art song with good intonation and of a voice with some promise of development.

Primary Instruments

Piano

- All major scales and harmonic minor scales, four octaves, hands together.
- I, IV and V triads and their inversions in all major and minor keys.
- Sightreading of a choral harmonization by J.S. Bach.
- Three compositions: one by J.S. Bach (an invention, or a Prelude and Fugue, or a Suite); one by Haydn, or Mozart, or Beethoven (sonata movement); one by a composer from the nineteenth or twentieth centuries.

Organ

- All major scales and harmonic minor scales, four octaves, hands together.
- I, IV and V triads and their inversions in all major and minor keys.
- Two compositions for piano: one by J.S. Bach (an invention) and a work of the student's choice by such composers as Beethoven, Chopin, Debussy, et al.

- At least one year of organ study. Suggested materials: Gleason, *Method for Organ*; Dickinson, *The Art of Organ Playing*; Carl, *Master Studies for Organ*.
- Sightreading of a hymn and a trio.
- Three works from memory: a Prelude and Fugue by J.S. Bach, an adagio movement by any composer and a contemporary composition of the student's choice.

Voice

- Evidence of a pleasing voice with good tonal placement, breath control and flexibility.
- Previous study preferred but not required.
- Sightreading of folk tunes and hymns.
- Two songs (one from memory) demonstrating musical sensitivity, good intonation and clear diction.
- Suggested materials: Soprano—Brahms, *Wiegenlied*; Quilter (arr.), *Drink To Me Only With Thine Eyes*; Contralto—Burleigh (arr.), *Deep River*; Giordani, *Caro mio ben*. Tenor—Barber, *The Daisies*; Purcell, *Passing By*. Bass-Baritone—Franz, *Dedication*; Quilter (arr.), *Drink To Me Only With Thine Eyes*.
- Any selection of more difficult nature from standard operatic, oratorio or western art song repertoire.

Strings

All major and minor scales, two and three octaves.

Violin

- Study materials such as those by Mazas, Wohlfahrt, Kreutzer.
- A solo sonata from the Baroque era.
- The concerto by Viotti, Vivaldi, Accolay, etc.

Viola

- Study materials such as Wohlfahrt's *Foundation Studies*, Books 1 and 2.
- A solo sonata from the Baroque Era.

Violoncello

- Study materials such as those by Lee, Dotzauer or Duport.
- Goltermann, *Concerto No. 4*; J.S. Bach, *Arioso* (or work of equivalent difficulty and style).

Double Bass

- Study materials such as Simandl, Book I
- J.S. Bach, *Minuet in G*; Corelli, *Sarabande* (or work of equivalent difficulty and style).

Guitar

- Milan, *Pavanes* (any three).
- De Visée, *Suite in D*.
- Villa Lobos, *Preludes Nos. 1 and 4*.

Harp

- Any three of the following (or the equivalent in difficulty and style): Bochsá, *Études*; Pozzoli, *Études*; Salzedo, *Études Modernes*; sonatas by Naderman or Krumpholtz; Grandjány, *Two French Folksongs*; Pratt, *Little Fountain*; Rénic, *Album Leaves*.

Woodwinds

Chromatic and all major scales, full range of instrument.

Sightreading of band or orchestral music, Class A or B.

Flute

- Study materials such as those by Boehm and Anderson.
- An unaccompanied solo by a Baroque composer.

Oboe

- Study materials such as Ferling's *Forty Etudes*
- A standard solo sonata.

Clarinet

- Study materials such as those by Klose, Baermann, Lazarus or Rose.
- A standard solo by Brahms, Spohr, Saint-Saens, etc.

Bassoon

- Study materials from Weissenborn's *Method*, pp. 10-38.
- Mozart, *Concerto in B-flat*, K. 191.

Saxophone

- Study materials such as those by Karg-Elert, Massis, Traxler
- A standard solo work.

Brass

All major scales, two octaves where possible.
Sightreading of band and orchestra music of Class A or B.

Trumpet/Cornet

- Study materials such as Arban's *Characteristic Studies*
- Haydn, *Concerto for Trumpet* (any movement).

French Horn

- Franz, *Method for Horn*.
- Mozart, any concerto movement.

Trombone/Baritone horn (Euphonium)

- Tyrell, *Forty Progressive Studies*.
- Blazevich, *Concerto Sketch No. 5*.

Tuba

- Arban, *Method* (bass clef; played one octave lower).
- Bach-Bell, *Air and Bourée* (or work of equivalent style and difficulty.)

Percussion

Sightreading of orchestral excerpts.
Snare Drum: Selected technical rudiments.

Tympani:

- Tuning.
- Execution of single-stroke roll.

Mallet instruments

- All major and minor scales.
- I, IV, V arpeggios.
- A solo piece of the student's choice.

Final Admission to Program

Theory/Composition

Final admission in junior year; in addition to full audition requirements, candidates must submit a portfolio of compositions and/or analytical sketches before completion of sophomore year.

Music Therapy

Final admission in junior year; in addition to full audition requirements, an interview and evaluation of all credentials (including reports of clinical experience) must be completed before the end of sophomore year.

Performance

Provisional acceptance is determined by an Applied Music jury at the end of the freshman year unless a postponement to the middle of the sophomore year is requested by the major teacher. Full admission is delayed until completion of a sophomore recital and demonstration of a solid grasp of the technical aspects of the performing medium and genuine musicality and sensitivity.

Music History

Candidates must demonstrate excellence in writing and speaking. In addition to proven interest in music and demonstration of performance skills, candidates must maintain an excellent record in traditional academic disciplines.

Music Education

Final admission is granted only after an interview and review of credentials toward the end of the sophomore year.

Comprehensive Examination

At the end of the sophomore year, all students must demonstrate comprehensive musicianship in the performing primary, functional keyboard skills, theoretical and practical skills, secondary vocal skills and other materials germane to the student's concentration.

This examination is a basic part of all credentials submitted for junior status or for full admission to any of the degree programs.

Applied Music Requirements for Graduation

All music students must study with members of the college faculty.

Although the amount and extent of study in applied music varies with concentration, each music major is required to complete two applied music sequences, one in the performing skill on which his acceptance to the department was based and the other in a secondary medium. Either the primary or the secondary must be a keyboard instrument.

Students majoring in performance will present a recital before the end of the sophomore year and another in the senior year. Students majoring in music education will present a recital in the senior year.

Students are expected to accompany at a level of their ability as designated by their teachers and to participate actively in the musical life of the college and community.

All students, with the exception of first-semester freshmen, are expected to perform during a noon recital program at least once each semester of primary study.

Secondary instruction beyond the minimum requirements is available when schedules and other considerations allow.

Student Recital/Seminar Requirements for Graduation

Each week the department of Music sponsors mid-day performances by students and lecture/recitals by faculty and guests. Every music major must register for H 1005 029, *Student Recital/Seminar*, on a pass-fail basis, for every semester of attendance at Montclair State College. Monday/Wednesday recitals are to be attended regularly by all students; Friday seminars are to be attended regularly by all new students for their first two semesters; other students attend in accordance with posted schedules.

Ensemble Requirements for Graduation

The ensemble policy is based on the principle that all students must perform in ensemble(s) every semester of their attendance at Montclair State College in order to assure the broadest possible experience in important ensemble repertoire and to assure that these ensembles have the needed instrumentation for successful performance. Although minimum requirements vary with the concentration, this principle is the overriding one.

Students may be assigned by the department chairperson to an ensemble in accordance with the needs of the department, regardless of the satisfaction by the student of his minimum requirements.

Vocalists who wish to participate in more than one vocal ensemble in a given semester must have the written permission of the primary teacher.

Where admission to a chamber ensemble is by audition and a student fails to gain admission, additional performance in a large ensemble may, with the chairperson's consent, be substituted.

Music Education: majors in voice, keyboard or guitar

- 6 semesters of choir
- 2 semesters of laboratory band
- 2 semesters of laboratory orchestra
- 2 semesters of chamber ensemble

Music Education: majors in stringed instruments (other than guitar)

- 6 semesters of orchestra
- 4 semesters of choir
- 2 semesters of chamber ensemble

Music Education: majors in brass, woodwinds, percussion

- 6 semesters of band
- 4 semesters of choir
- 2 semesters of chamber ensemble

Performance: majors in voice

- 8 semesters of choir
- 4 semesters of chamber ensemble
- 4 elective semesters

Performance: majors in guitar

- 8 semesters of chamber ensemble
- 4 semesters of choir
- 4 elective semesters

Performance: majors in stringed instruments (other than guitar)

- 8 semesters of orchestra
- 4 semesters of chamber ensemble
- 4 elective semesters

Performance: majors in brass, woodwinds, percussion

- 8 semesters of band
- 2 semesters of choir
- 3 semesters of chamber ensemble
- 3 elective semesters

Performance: majors in keyboard instruments

- 8 semesters of choir
- 5 semesters of chamber ensemble
- 3 elective semesters

Theory/Composition: majors in voice, guitar

- 4 semesters of choir
- 8 semesters of chamber ensemble
- 4 elective semesters

Theory/Composition: majors in stringed instruments (other than guitar)

- 8 semesters of orchestra
- 4 semesters of chamber ensemble
- 4 elective semesters

Music Therapy:

- 6 semesters using primary instrument
- 2 semesters using secondary instrument

Music History: majors in voice, guitar or keyboard

- 6 semesters of choir
- 2 elective semesters

Music History: majors in brass, woodwinds or percussion

- 6 semesters of band or orchestra
- 2 elective semesters

For the purposes of the above requirements, "chamber ensemble" includes Collegium Musicum, Clairchords and all solo/duet/trio/etc. repertoire which involves piano accompaniment and does not duplicate materials studied for solo recital or jury performance. Participation in Jazz Power and Jazz Machine may substitute for a portion of Concert Band, with the approval of the department chairperson and the appropriate conductors.

Performance Dress Code

Since the department of Music has the training of future professional musicians as one of its major objectives, the music student is expected to dress as a professional whenever appearing before the public.

Mid-Day Recitals

- Men:** Dark suit, white shirt with collar, simple necktie; shoes and hose matching the suit. No informal attire is allowed.
- Women:** Simple dress or skirt and blouse; hose and dress shoes; simple costume jewelry is permitted but nothing that would be gaudy or distracting or that would call attention to itself.

Solo Recitals

- Men:** Same as for ensemble wear (see below) or simple tuxedo with appropriate accessories.
- Women:** Formal gown; jewelry, hose and shoes appropriate to restraint in dress and avoidance of distraction.
- Accompanists:** Same as for ensemble wear (see below) or matching the attire of the soloist.

Ensembles

- Men:** Black or dark blue suit, solid color white collar shirt, with black, solid color four-in-hand tie; black shoes; black, over-the-calf hose.
- Women:** Black floor-length, solid color skirt, with either solid white or solid black long-sleeved blouse; hose, black shoes. Black pants suit, with either white or black blouse is also acceptable.

Instrumental Rental

A fee of \$20 (subject to change) per semester is charged students who rent college-owned instruments. Summer rental is considered as a separate semester for this purpose.

Degree Requirements

All Majors

	Semester Hours
1005 029 Student Recital/Seminar, 8 semesters	0
1006 307/308 Music History I, II	6
1016 101, 102, 201, 202 Theory I, II, III, IV	16
Secondary instrument (voice or piano)	0-4
Ensembles (see above)	4-8

Music Education Concentration (in addition to requirements for all majors)

	Semester Hours
Applied Music	
Primary Instrument I-VII	14
Secondary Instrument I-IV	4

Music Theory

1016 303, 304 Orchestration, Counterpoint	6
---	---

Collateral Course

1902 105 Acoustics	3
--------------------	---

Additional Music Requirements (Vocal/Instrumental Majors)

	Semester Hours
0832 105, 205, 206, 306 Instrumental Methods (1 semester hour each)	4
0832 200 Introduction to Music Education	2
0832 Choral Techniques	2
0832 132 Marching Band Techniques	2
0832 420 The Teaching of Music in Secondary Schools	3
Conducting	2
Senior Recital	0
Marching Band (two semesters of participation)	0
Practicum	2

Additional Music Requirements (Keyboard Majors)

	Semester Hours
Same as for Vocal/Instrumental majors plus	
1016 310, 311 Keyboard Harmony I, II (2 semester hours each)	4
1005 5301 Chamber Ensemble Piano (two semesters)	0.5 ea.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. In addition, students must satisfactorily complete the course 0832 320 Teaching Music in the Elementary School.

Concentration in Performance: Voice

(in addition to requirements for all majors)

Applied Music	36
	Semester Hours
Primary/Major Instrument	28
1004 040 Master Class in Performance	4
1004 3101, 3102, 3103, 3104 Secondary Piano I-IV	4
Sophomore and Senior Recitals	0

Additional Music Requirements	8
1004 340, 342/3, 344/5, 346/7 Italian, French, German and English Repertory and Diction	

Required Collateral and General Education

Courses	21
French, Italian and German languages (2 semesters each)	18
1902 105 Acoustics	3

Concentration in Performance: Keyboard

(in addition to requirements for all majors)

Applied Music	32
	Semester Hours
Primary/Major Instrument	28
1004 040 Master Class in Performance	4
Sophomore and Senior Recitals	0

Music Theory	8
1016 303, 304 Counterpoint, Orchestration	6
1016 310, 311 Keyboard Harmony I, II	2

Additional Music Requirements	13
1004 201, 202 Piano Literature	4
1004 335 or 429 Conducting	2
1004 439, 440 Elementary Piano Pedagogy I, II	4
OR	
Elective (choral)	2

Required Collateral Course	3
1902 105 Acoustics	3
1005 5301 Chamber Ensemble Piano (two semesters)	0.5 ea.

Concentration in Performance: Instrumental Media

(in addition to requirements for all majors)

	Semester Hours
Applied Music	40
	Semester Hours
Primary/Major Instrument	28
1004 040 Master Class in Performance	4
1004 3101, 3102, 3103, 3104 Secondary Piano I-IV	4
1004 276, 227 Instrumental Literature I, II	4
Sophomore and Senior Recitals	0

Music Theory	6
1016 303, 304 Counterpoint, Orchestration	6

Additional Music Requirements	6
1004 439 Piano Pedagogy I	2
1004 335 or 429 Conducting	2
Elective	2

Required Collateral Course	3
1902 105 Acoustics	3

Theory/Composition Concentration

(in addition to requirements for all majors)

Applied Music	20
Primary Instrument	8
Secondary Instrument	4
Instrumental Instruction	8

Music Theory and Composition	28
---	----

1016 303, 304 Counterpoint, Orchestration	6
1016 412 Electronic Music Composition	3
1016 341, 342 Private Study I, II	4
1016 441, 442 Private Study III, IV	4
1016 401 Musical Composition	2
1016 310, 311 Keyboard Harmony I, II	3
Note: If piano is the student's secondary instrument, a music elective may be substituted.	
Electives	6

Additional Music Requirements	5
--	---

1006 407 Music History III	3
1004 335 or 429 Elementary or Choral Conducting	2
1005 5301 Chamber Ensemble Piano (two semesters)— For Keyboard Primaries Only	0.5 ea.

Required Collateral Course	3
1902 105 Acoustics	3

Music Therapy Major

(in addition to requirements for all majors)

Applied Music	14
Primary Instrument	8
Secondary Instrument	4
1004 3171, 3172 Secondary Guitar I, II	2

Music Theory	2
	Semester Hours
1016 401 Musical Composition	2

Additional Music Requirements	9
0832 105, 205, 206, 306 Strings, Brass, Woodwinds, Percussion (1 semester hour each)	4
1004 335 or 429 Elementary OR Choral Conducting	2
1005 150 Influence of Afro-American Culture on Music OR	
1005 160 Introduction to Music in World Cultures	3

Additional Music Therapy Requirements	11
1095 262, 263, 361, 362, 363, 364 Music Therapy Practicum I-VI	6
1095 260 Methods and Materials in Music Therapy	2
1095 3105 Piano Improvisation for the Music Therapist	1
1095 3106 Piano Accompanying Techniques for the Music Therapist	1
1005 5301 Chamber Ensemble Piano (two semesters)— For Keyboard Primaries Only	0.5 ea.

Professional Sequence	24
0842 331 Group Dynamics OR	
1095 400 Music Therapy Training Group	3
1095 160 Introduction to Music Therapy I	2
1095 261 Therapy and Observation Skills for Music Therapy	2
1095 461 Music Therapy with Children	3
1095 462 Music Therapy with Adults	3
1095 463, 464 Psychological Foundations of Music I, II (2 semester hours each)	4
1095 465 Internship in Music Therapy	1
2001 201 Child Psychology	3
2001 365 Abnormal Psychology	3

Required Collateral and General Education Courses	12
0831 410 Introduction to Art Therapy	3
2001 101 General Psychology I	3
2001 235 Psychology of Exceptional Children and Youth	3
2208 204 Sociology of the Family	3

Music History Concentration

(in addition to requirements for all majors)

Applied Music	8
Primary Instrument	4
Secondary Instrument	4
Music Theory	3
Elective	3
Music History and Literature	18
1005 160 Introduction to Music in World Cultures	3
1006 462 Seminar in Music I	3
Electives	12
Thesis	0

Additional Music Requirement	1
1005 5301 Chamber Ensemble Piano (two semesters)– For Keyboard Primaries Only	0.5 ea.

Required Collateral and General Education Courses	48
German	12
1007 100 Introduction to Theatrical Medium	3
Elective in History OR Literature	3
Elective in Art History	3
Elective in Theatre History	3
1001 100 Introduction to Visual Arts	3
1503 172 Western World Literature	3
French I and II OR Italian I and II	6
0701 108 Computers and Programming	3
2205 142 Twentieth Century Global Civilization	3
0838 101 Contemporary Business	3
2205 104 Introduction to Historical Thinking	3

Courses of Instruction

H0832 105 STRING INSTRUMENTS I	1.0
Elementary playing skills, violin being the basic instrument for all who lack string experience; materials and methods for beginning string classes.	
H0832 106 STRING INSTRUMENTS II	1.0
Continuation of H0832 105.	
<i>Prerequisites: H 0832 105, majors only.</i>	

H0832 132 MARCHING BAND TECHNIQUES	2.0
Methods, organization and planning. Drill design, playing, rehearsal techniques.	

H0832 200 INTRODUCTION TO MUSIC EDUCATION	3.0
Recent innovations in philosophies, techniques, and materials of music education. Practical and philosophical foundations and application of learning theories.	
<i>Prerequisites: Sophomore music-major status.</i>	

H0832 205 BRASS INSTRUMENTS	1.0
Skills on trumpet, horn, trombone and other brasses; materials and procedures for teaching these instruments in beginning classes.	

H0832 206 WOODWIND INSTRUMENTS	1.0
Skills on clarinet, flute, oboe and other woodwinds; materials and methods for teaching these instruments; organizing woodwind classes.	

H0832 306 PERCUSSION INSTRUMENTS	1.0
Skills on snare drum, bass drum, timpani, cymbals, bells, etc; materials and methods for teaching these instruments in the classroom.	
<i>Prerequisite: H 1016 202.</i>	

H0832 320 TEACHING MUSIC IN THE ELEMENTARY GRADES K-6	3.0
Principles, techniques, materials and methods. Kodaly, Orff, MMCP, Carabo-Cone; techniques germane to both the traditional and more innovative school structures; individualized instruction and techniques for small and large groups; the sequential curriculum in music education	
<i>Prerequisite: H 1016 202.</i>	

H0832 400 ADMINISTRATIVE TECHNIQUES IN PUBLIC SCHOOL MUSIC PROGRAMS	1.0
Budgeting, scheduling, equipment maintenance, record-keeping and other activities germane to the support of school music curricula.	
<i>Prerequisite: Junior or senior standing, music education majors only.</i>	

H 0832 420 THE TEACHING OF MUSIC IN SECONDARY SCHOOLS	3.0
Philosophy, aims, content and procedures of music teaching in the junior and senior high school; emphasis upon the teaching of the general music class and the incorporation of new methods; lesson plans and units of work for use in the classroom. Includes observation and participation.	
<i>Prerequisite: H 0832 320.</i>	

H0832 439 PIANO PEDAGOGY I	2.0
Methods and materials of teaching piano for piano grades I through IV.	
<i>Prerequisite: Majors only, junior or senior standing.</i>	

H0832 440 PIANO PEDAGOGY II	2.0
Methods and materials of teaching piano for piano grades V through VIII.	
<i>Prerequisites: Majors only, junior or senior standing, completion of H 0832 439.</i>	

H0832 499 INDEPENDENT STUDY IN MUSIC EDUCATION	1.0-4.0
Project and/or study area planned with sponsoring faculty member.	

H 1004 020 VOCAL ENSEMBLE Study through rehearsal and performance of vocal chamber music. Open to all.	0.5	H 1004 105 MODERN GUITAR WORKSHOP Sight reading, chord playing and technical skills needed for the commercial musical scene. Latin music, swing rhythms, rock interpretations, jazz styles (chord and single-note soloing), effective accompaniment styles. Open to majors and non-majors. <i>Prerequisite: Basic knowledge of guitar, some reading ability.</i>	3.0
H 1004 030 CHOIR	0.5	H 1004 201 PIANO LITERATURE I Investigation through performance of and directed listening to standard piano repertoire from J.S. Bach to the present. <i>Prerequisites: H 1016 101, 102, majors only.</i>	2.0
H 1004 031 ORCHESTRA	0.5	H 1004 202 PIANO LITERATURE II Continuation of Piano Literature I. <i>Prerequisite: H 1004 201, majors only.</i>	2.0
H 1004 032 BAND	0.5	H 1004 276 INSTRUMENTAL LITERATURE I Survey of various instrumental genres for solo, small ensemble and orchestra. <i>Prerequisite: Performance ability on standard orchestra band instrument.</i>	2.0
H 1004 033 MARCHING BAND	0.5	H 1004 277 INSTRUMENTAL LITERATURE II Continuation of Instrumental Literature I. <i>Prerequisite: H 1004 276, majors only.</i>	2.0
H 1004 034 OPERA WORKSHOP Musical theatre studied through performance. Nature of dramatic music, problems of movement, make-up, costuming, props and scenery. <i>Prerequisite: Instructor's permission.</i>	2.0	H 1004 300 JAZZ BAND-IMPROVISATION LAB Jazz improvisation and performance techniques studied through ensemble rehearsals; creative use of instrumental and harmonic skills in the jazz idiom.	2.0
H 1004 035 OPERA WORKSHOP II Continuation of H 1004 034. <i>Prerequisite: Instructor's permission.</i>	2.0	H 1004 301 CHAMBER ENSEMBLE PERFORMANCE Study through playing or singing of chamber music in ensembles of varying size and musical styles. <i>Prerequisite: Ability to perform at a level satisfactory to instructor.</i>	0.5
H 1004 036 ENSEMBLE PERFORMANCE 7½ week ensemble performance in the student-teaching semester of the junior year. Music education majors only, primary ensemble.	0.3	H 1004 304 JAZZ KEYBOARD AND THEORY Introduction to jazz techniques of harmonization, improvisation and theory at the keyboard in varying styles. <i>Prerequisites: H 1004 101, 102, 103, 104 or instructor's permission.</i>	2.0
H 1004 037 ENSEMBLE PERFORMANCE 7½ week ensemble performance in the student-teaching semester of the senior year. Music education majors only, primary ensemble.	0.2	H 1004 335 ELEMENTARY CONDUCTING Baton techniques and clef reading in orchestral and choral scores. <i>Prerequisite: H 1016 202.</i>	2.0
H 1004 038 COLLEGIUM MUSICUM I Study of early instruments: Viola da gamba, lute, recorder, cromorne, sackbut, organetto, psaltery, etc. Concert performance of Medieval, Renaissance, and early Baroque music.	0.5	H 1004 340 ITALIAN REPERTORY AND DICTION I Italian art songs; interrelation of music with text; the vocal musical line and the instrumental part; technical and stylistic demands of the music; Italian diction introduced. Emphasis on listening and performing. Majors only.	1.0
H 1004 039 COLLEGIUM MUSICUM II Continuation of H 1004 038. <i>Prerequisite: H 1004 038.</i>	0.5	H 1004 341 ITALIAN REPERTORY AND DICTION II Continuation of H 1004 340. <i>Prerequisites: H 1004 340, basic knowledge of Italian diction, majors only.</i>	1.0
H 1004 040 MASTER CLASS IN PERFORMANCE Performance of repertoire for coaching in interpretation, style, analysis, technique, etc. Required in conjunction with each course in the primary and major instrument. <i>Prerequisite: Primary instrument requirement must be met.</i>	0.5		
H 1004 100 CLASS PIANO FOR NON-MUSIC MAJORS Basic skills and fundamental knowledge of the keyboard. A basic knowledge of music reading is helpful but not necessary.	3.0		
H 1004 103 VOICE CLASS FOR THE NON-MUSIC MAJOR Study of singing through vocal exercises and the performance in class of English and American art, theatrical and popular songs.	3.0		

H 1004 342			
FRENCH REPERTORY AND DICTION I	1.0		
Basic French for singing; enunciation and pronunciation; vocabulary.			
<i>Prerequisites: Some fundamental knowledge of use of singing voice, majors only.</i>			
H 1004 343			
FRENCH REPERTORY AND DICTION II	1.0		
Continuation of H 1004 342. Study of French repertory. Projection of text, musical style.			
<i>Prerequisites: H 1004 342, basic knowledge of French diction.</i>			
H 1004 344			
GERMAN REPERTORY AND DICTION I	1.0		
Basic German for singing; enunciation and pronunciation; vocabulary.			
<i>Prerequisites: Some fundamental knowledge of use of singing voice, majors only.</i>			
H 1004 345			
GERMAN REPERTORY AND DICTION II	1.0		
Continuation of H 1004 344. Advanced material; study of German repertory; projection of text, musical style.			
<i>Prerequisites: H 1004 344, basic knowledge of German diction.</i>			
H 1004 346			
ENGLISH REPERTORY AND DICTION I	1.0		
Basic rules for singing in English; correcting poor everyday speech habits; learning songs.			
<i>Prerequisites: Fundamental knowledge of the singing voice, majors only.</i>			
H 1004 347			
ENGLISH REPERTORY AND DICTION II	1.0		
Continuation of H 1004 346. Art songs, contemporary arias. Meaning of text and means of communicating words to the audience.			
<i>Prerequisites: H 1004 346, some experience in vocal performance.</i>			
H 1004 429			
CHORAL CONDUCTING	2.0		
Tone production, tuning, posture, score reading; interpretation and techniques of choral conducting; materials suitable for use in high school.			
<i>Prerequisite: H 1004 335.</i>			
H 1004 439			
PIANO PEDAGOGY I	2.0		
Methods and materials of instruction in music.			
H 1004 440			
PIANO PEDAGOGY II	2.0		
Continuation of H 1004 439.			
H 1004 465			
PROBLEMS OF PERFORMANCE	3.0		
Development of techniques needed for success in public appearances involving music, theatre, speech, etc. Resolving such problems as stage fright, memory loss, pre-performance anxiety; attaining self-understanding and confidence using techniques of Havas, Berne, Horigel, Weekes, Alexander, others. Guest performers. Open to all majors. (Listed also under department of Psychology T 2001 465).			
H 1004 471			
COMMERCIAL MUSICAL SKILLS	3.0		
Techniques of singing, playing, conducting, composing and arranging as demanded in the music industry. Auditioning, preparation of material for the advertising industry, rehearsal techniques, problems of musical theatre, television, recording and cinema.			
<i>Prerequisite: Performing ability as a singer or instrumentalist at a level satisfactory to the instructor.</i>			
H 1004 499			
INDEPENDENT STUDY IN MUSIC			
PERFORMANCE	1.0-4.0		
Project and/or study planned with sponsoring faculty member.			
<i>Prerequisite: Instructor's permission</i>			
H 1004 3101			
SECONDARY INSTRUMENT I-PIANO	1.0		
Keyboard skills including major and minor scales, arpeggios, and chord progressions, sightreading, transposition, harmonization, improvisation.			
H 1004 3102			
SECONDARY INSTRUMENT II-PIANO	1.0		
Continuation of 1004 3101.			
<i>Prerequisite: H 1004 3101.</i>			
H 1004 3103			
SECONDARY INSTRUMENT III-PIANO	1.0		
Continuation of 1004 3102.			
<i>Prerequisite: H 1004 3102.</i>			
H 1004 3104			
SECONDARY INSTRUMENT IV-PIANO	1.0		
Continuation of 1004 3103. A comprehensive examination must be passed at the end of the semester.			
<i>Prerequisite: H 1004 3103.</i>			
H 1004 3171			
SECONDARY INSTRUMENT GUITAR I	1.0		
Basic techniques of guitar playing including chording and melodic work.			
H 1004 3172			
SECONDARY INSTRUMENT GUITAR II	1.0		
Continuation of H 1004 3171.			
H 1005 029			
STUDENT RECITAL		no credit	
All music majors must register for this number every semester in order to free their schedules for recital commitments.			
H 1005 100			
INTRODUCTION TO MUSIC		3.0	
Expansion of musical awareness through live performance and directed listening.			
H 1005 150			
INFLUENCE OF AFRO-AMERICAN CULTURE ON MUSIC		3.0	
Ways in which the Afro-American culture has affected the development of American folk and art music.			
H 1005 160			
INTRODUCTION TO MUSIC IN WORLD CULTURES		3.0	
The cultural and artistic forces which shape the musics of the nonwestern world and the various folk and art musics resulting from those forces.			
H 1005 209			
INTRODUCTION TO JAZZ		3.0	
Jazz as an American phenomenon; musical materials as manipulated by jazz artists; the impact on American popular music, dance and theatre; early jazz players and developments.			
H 1005 236			
THE AMERICAN MUSICAL		3.0	
Introduction to the varieties of style in music for the purpose of extending dramatic action, characterization and atmosphere in musicals, operettas and musical comedies. Representative works from 1927 to the present.			

H 1005 237		
THE OPERA	3.0	
Styles and approaches in music for purposes of dramatic characterization, atmosphere and plot development. Representative works in English, Italian, French, German and Russian from Monteverdi to the present.		
H 1005 238		
ORCHESTRAL LITERATURE	3.0	
Representative genres and styles for large instrumental ensembles from the early Baroque era to the present.		
H 1005 240		
MUSIC OF THE ROMANTIC PERIOD	3.0	
The romantic spirit in nineteenth-century and selected modern works; performance and/or directed listening; parallel aspects of literature and the visual arts.		
H 1005 250		
SOUNDS OF THE CITY	3.0	
The sound spectrum of the city approached with the expanded ideation of contemporary music. The vehicle for study and experience will be the creation by the group of a 1½ hour tape. Work based on sounds of the city.		
H 1005 309		
THE ART OF JAZZ	3.0	
Development of jazz in America and abroad; sociological implications in American society and the impact of jazz upon contemporary composition.		
H 1005 350		
LITERATURE OF CHAMBER MUSIC	3.0	
Study of various types of chamber music for vocal and instrumental groups.		
H 1005 426		
SURVEY OF MUSIC LITERATURE	3.0	
Folk and art song, oratorio, opera, idealized dance forms, instrumental suites, symphonic poem; principles of musical form. For the general student.		
H 1005 462		
PROJECT IN MUSIC II: OPERA STUDY TOUR	3.0	
Study tour to different locations described in Winter session brochure each time it is offered. Offered during Winter session only. Open to all. Enrollment limited to twenty students. Special fee required.		
<i>Prerequisite: Instructor's permission.</i>		
H 1005 499		
INDEPENDENT STUDY IN MUSIC	1.0-4.0	
Project and/or study planned with sponsoring faculty member.		
H 1006 307		
MUSIC HISTORY I	3.0	
Research method and music bibliography. Styles, genres and shaping forces of western music from the rise of polyphony in the Middle Ages through the music of Haydn and Mozart.		
<i>Prerequisites: H 1016 202, majors only, or instructor's permission.</i>		
H 1006 308		
MUSIC HISTORY II	3.0	
Continuation of H 1006 307, beginning with Beethoven. The music of the romantic era as manifested in the nineteenth and twentieth centuries; major currents of the modern era.		
<i>Prerequisite: H 1006 307.</i>		
H 1006 400, 401		
SELECTED TOPICS IN MUSIC I, II	1.5 each	
Intensive study of a single composer or of a limited array of works. May be taken a second time. 7-week course.		
<i>Prerequisites: H 1006 307, 308, instructor's permission.</i>		
H 1006 407		
MUSIC HISTORY III	3.0	
Major figures, forms, genres and styles from Debussy to the present.		
<i>Prerequisite: H 1006 307, 308, or instructor's permission.</i>		
H 1006 462		
PROJECTS IN MUSIC I (SEMINAR)	3.0	
Research on a project or problem in an area selected by each student with the instructor's approval. Conducted in America or abroad.		
<i>Prerequisite: Instructor's permission.</i>		
H 1006 499		
INDEPENDENT STUDY: MUSIC HISTORY	1.0-4.0	
Project and/or study planned with sponsoring faculty member.		
<i>Prerequisite: Instructor's permission.</i>		
H 1016 100		
MUSIC COMPOSITION FOR NON-MAJORS	3.0	
Creative exploration of the various aspects of the craft of music composition. Deals with musical notation, instrumentation, forms, styles, contemporary techniques, performance practice, etc.		
<i>Prerequisite: Ability to read music at a basic level.</i>		
H 1016 101		
THEORY I	4.0	
Integrated study of harmony, counterpoint, and analysis of small forms with emphasis on aural and keyboard skills. Meets six hours weekly.		
<i>Prerequisite: Majors only or instructor's permission.</i>		
H 1016 102		
THEORY II	4.0	
Continuation of topics and materials covered in Theory I. Meets six hours weekly.		
<i>Prerequisites: H 1016 101, majors only, or instructor's permission.</i>		
H 1016 150		
FUNDAMENTALS OF MUSIC FOR THE NON-MAJOR	3.0	
Introduction to music notation: Reading of clefs, key signatures and their relationship to various modes; rhythm and meter; basic harmonic structures (intervals, triads, and seventh chords). Sight singing and dictation.		
H 1016 201		
THEORY III	4.0	
Chromatic harmony; intermediate contrapuntal techniques; analysis of the larger instrumental forms. Continuation of emphasis on aural and keyboard skills related to these areas. Meets six hours weekly.		
<i>Prerequisites: H 1016 102, majors only, or instructor's permission.</i>		
H 1016 202		
THEORY IV	4.0	
Continuation of materials and techniques of Theory I-V; writing, dictation		
<i>Prerequisites: H 1016 201, majors only, or instructor's permission.</i>		
H 1016 301		
PROSEMINAR IN MUSIC THEORY	3.0	
Coordinating seminar in analytical and aural skills and harmonic, contrapuntal and compositional procedures found in western art music focusing on selected topics relevant to undergraduate study.		
<i>Prerequisites: H 1016 201, majors only, or instructor's permission.</i>		
H 1016 303		
THEORY V	4.0	
Continuation of materials and techniques of Theory I-IV; writing, dictation and analysis. Emphasis on layer analysis and historical counterpoint.		
<i>Prerequisite: H 1016 202 or instructor's permission.</i>		

H 1016 304
THEORY VI 4.0
Continuation of materials and techniques of Theory I-V; writing, dication and analysis. Emphasis on orchestration and analytical procedures.
Prerequisite: H 1016 303.

H 1016 310
KEYBOARD HARMONY FOR PIANO MAJORS I 1.0
The various skills pianists will need as professional performers, therapists, and educators. Harmonization, transposition, improvisation, realization of figured bass, reduction of open scores and sightreading.
Prerequisite: Status as a keyboard major.

H 1016 311
KEYBOARD HARMONY FOR PIANO MAJORS II 1.0
Continuation of H 1016 310.
Prerequisite: H 1016 310.

H 1016 340
STRUCTURAL ANALYSIS 2.0
Formal organization of selected compositions.
Prerequisite: H 1016 202.

H 1016 341
PRIVATE STUDY IN COMPOSITION I 2.0
Restricted to majors in Theory/Composition.
Prerequisite: H 1016 202.

H 1016 342
PRIVATE STUDY IN COMPOSITION II 2.0
Restricted to majors in Theory/Composition.
Prerequisites: H 1016 341, majors only.

H 1016 401
MUSICAL COMPOSITION 2.0
Practical exploration of the various trends in the 20th century composition.
Prerequisite: H 1016 202.

H 1016 405
SELECTED TOPICS IN THEORETICAL STUDIES 1.0
Research and discussion of selected topics in theoretical studies focusing on stylistic and analytical problems. To be offered as short term courses. May be repeated for credit.
Prerequisite: H 1016 304.

H 1016 412
ELECTRONIC MUSIC COMPOSITION 3.0
Exploration of electronic music techniques; practical experience in both concrete and synthesizer music.
Prerequisite: H 1016 202.

H 1016 415
THEORY PEDAGOGY 2.0
A survey of pedagogical approaches to music theory.
Prerequisite: H 1016 202.

H 1016 441
PRIVATE STUDY IN COMPOSITION III 2.0
Restricted to majors in Theory/Composition.

H 1016 442
PRIVATE STUDY IN COMPOSITION IV 2.0
Restricted to majors in Theory/Composition.
Prerequisite: H 1016 441

H 1016 460
MANUSCRIPT PREPARATION FOR THE MUSIC INDUSTRY 2.0
Study of methods of manuscript preparation, copying techniques and practical problems involved in preparing commercial scores for recording, film and background playing.
Prerequisites: Majors only or instructor's permission.

H 1016 499
INDEPENDENT STUDY IN THEORY/COMPOSITION 1 0-4.0
Project and/or study planned with sponsoring faculty member
Prerequisite: H 1016 202.

H 1095 160
INTRODUCTION TO MUSIC THERAPY I 2.0
Survey of use of music therapy with various population and other topics of relevance to the music therapist.

H 1095 260
METHODS AND MATERIALS IN MUSIC THERAPY 2.0
A variety of music activities and how to adapt them for music therapy settings; leadership techniques; simple instruments used in therapy.

H 1095 261
THERAPY AND OBSERVATION SKILLS FOR MUSIC THERAPY 2.0
Observing, measuring and recording behavior in a music therapy setting and other aspects of planning for music therapy sessions as well as observing music therapy sessions.

H 1095 262
MUSIC THERAPY PRACTICUM I 1.0
Improvement of the functioning of a client or group of clients with physical or mental disabilities through the use of music therapy. Discussion of the clients and their progress and other aspects of clinical work.
Prerequisites: H 1095 160, 261 or instructor's permission.

H 1095 263
MUSIC THERAPY PRACTICUM II 1.0
Continuation of H 1095 262.
Prerequisite: H 1095 262.

H 1095 361
MUSIC THERAPY PRACTICUM III 1.0
Continuation of H 1095 263.
Prerequisite: H 1095 263.

H 1095 362
MUSIC THERAPY PRACTICUM IV 1.0
Continuation of H 1095 361.
Prerequisite: H 1095 361.

H 1095 363
MUSIC THERAPY PRACTICUM V 1.0
Continuation of H 1095 362.
Prerequisite: H 1095 362.

H 1095 364
MUSIC THERAPY PRACTICUM VI 1.0
Continuation of H 1095 363.
Prerequisite: H 1095 363.

H 1095 400**MUSIC THERAPY TRAINING GROUP****1.0**

Expression and exploration of feelings through use of creative media. Particular attention to process so that experience may be generalized and subsequently used with client groups. Meets two hours per week for two semesters. Credit for first semester granted only upon satisfactory completion of the two-semester sequence.

Prerequisites: Individual and group dynamics, piano improvisation for the Music Therapy major.

H 1095 401**MUSIC THERAPY TRAINING GROUP****1.0**

Continuation of H 1095 400. Meets two hours per week for two semesters. Credit for first semester granted only upon satisfactory completion of the two-semester sequence.

Prerequisite: H 1095 400.

H 1095 461**MUSIC THERAPY WITH CHILDREN****3.0**

Ways in which music and the therapist may be used to influence the behavior of children, the mentally retarded, and the physically disabled.

Prerequisite: Senior standing in Music Therapy.

H 1095 462**MUSIC THERAPY WITH ADULTS****3.0**

Ways in which music therapy may be used in working with adult psychiatric patients, addictions, offenders, and geriatrics; setting up a music therapy program.

Prerequisite: Senior standing in Music Therapy.

H 1095 463**PSYCHOLOGICAL FOUNDATIONS OF MUSIC I****2.0**

The basic literature concerning psychological research in music, with emphasis on research techniques and interpretation of data. Findings will be used to discuss current ideas and practices in music therapy, performance, and music education.

Prerequisite: Junior standing in Music Therapy major.

H 1095 464**PSYCHOLOGICAL FOUNDATIONS OF MUSIC II****2.0**

The emotional correlates of the musical experience explored through research findings, psychological testing and inquiry, and philosophy. Implications of current theories applied to practices in music therapy, performance, and music education.

Prerequisite: H 1095 463.

H 1095 465**INTERNSHIP IN MUSIC THERAPY****1.0**

Six months clinical training as a music therapy intern in a training program approved by the National Association for Music Therapy.

Prerequisite: Completion of all course work leading to a baccalaureate degree or equivalent.

H 1095 499**INDEPENDENT STUDY IN MUSIC THERAPY****1.0-3.0**

Project and/or study planned with sponsoring faculty member.

H 1095 3105**PIANO IMPROVISATION FOR THE MUSIC THERAPIST****1.0**

Improvisation including basic Nordoff-Robbins techniques.

Prerequisite: H 1004 3104 or its final examination.

H 1095 3106**PIANO ACCOMPANYING TECHNIQUES FOR THE MUSIC THERAPIST****1.0**

Continuation of H 1095 3105 and completion of songs.

Prerequisite: H 1095 3105.

H 1099 100**INTRODUCTION TO THE FINE AND PERFORMING ARTS****3.0**

Examination through study and experience of esthetic and practical considerations in theatre, music and the visual arts. Problems of form, style, media and meaning. Team taught.

H 1099 450**INTRODUCTION TO PERFORMING ARTS MANAGEMENT I****3.0**

Structures of performing arts organizations in the U.S.

Prerequisites: 9 semester hours in art appreciation or applied work, or demonstrated interest in the arts or permission of instructor or department.

H 1099 451**INTRODUCTION TO PERFORMING ARTS MANAGEMENT II****3.0**

Problems and theories of arts management for performing groups in the U.S.; marketing, production, fund-raising and other aspects of operation.

Prerequisite: H 1099 450 or instructor's permission.

H 1099 460**INTERNSHIP IN PERFORMING ARTS MANAGEMENT I****4.0**

Field work (two days per week or equivalent) in a professional situation. On-the-job training in day-to-day operations of a performing arts organization. Students will participate in all facets of production, observe decision-making activities. Registrants must be able to drive and provide own transportation.

Prerequisites: H 1099 451, permission of sponsoring organization, permission of department chairperson, 1 semester of psychology.

H 1099 461**INTERNSHIP IN PERFORMING ARTS MANAGEMENT II****4.0**

Continuation of H 1099 460. Registrants must be able to drive and provide own transportation.

Prerequisites: H 1099 460, permission of sponsor and department.

H 1099 462**INTERNSHIP IN PERFORMING ARTS MANAGEMENT III****4.0**

Full semester's internship in a fine or performing arts organization with time allocation mutually decided by the sponsor and the student's major department. Interns must be able to drive and to provide own transportation.

Prerequisites: H 1099 461, permission of sponsor(s) and major department.

H 1099 470**EXTERNSHIP IN PERFORMING ARTS MANAGEMENT****1.0-15.0**

Management of an arts organization arranged in cooperation with the major department and umbrella organizations. Credit to be arranged.

Prerequisites: H 1099 450, 451; two semesters of internship, permission of sponsor(s) and major department.

Philosophy and Religion

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Thomas Bridges

Taking courses in philosophy and religious studies means gaining a greater ability to think clearly and independently about the central issues of human life. These studies present the occasion and the means to reflect critically on basic values and beliefs. The courses complement other major programs by enhancing awareness of the philosophical, ethical and religious elements and implications of other academic studies.

Both areas can be taken as a major leading to a Bachelor of Arts degree. They are also good second majors to enrich a liberal arts interest. A minor is offered in both programs. Each major is excellent preparation for later graduate and professional work.

Philosophy Major

Required Courses

	Semester Hours
Fields of Philosophy (even course numbers)	15
History and Movements (odd course numbers)	15
1509 331 Ancient Philosophy	3
1509 333 Descartes to Kant	3
Electives in History and Movements	9
Seminar in Philosophy (select one)	3

Philosophy Minor

Required Courses (18 semester hours)

	Semester Hours
Fields of Philosophy (even course numbers)*	6-12
History and Movements in Philosophy (odd course numbers)*	6-12

*Consult with a departmental advisor for the choice of courses.

Religious Studies Major

Required Courses

1599 100 Religions of the World	3
1599 401, 403 Philosophical Backgrounds of Western Religion I, II	6

Electives (Departmental)

Select 21 semester hours from the appropriate list to be obtained from the department 21

Seminar in Religious Studies (select one) 3

Religious Studies Minor

Required Courses

1599 101 Introduction to Religion	3
1599 460, 462, 465, 467 Seminars in Religious Studies	3

Electives (Departmental)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Courses of Instruction

R 1509 100
 INTRODUCTION TO PHILOSOPHY 3.0
 The nature, scope, methods, basic problems and major types of philosophy.

R 1509 102
 ETHICS 3.0
 The nature of ethical judgments, the meaning of moral concepts, the conditions of moral responsibility and the methodological presuppositions of ethical theories.

R 1509 104
 SOCIAL AND POLITICAL PHILOSOPHY 3.0
 The nature of society and the state, their relation to each other and to the individual, and an evaluation of some main political and social ideals.

R 1509 106
 LOGIC 3.0
 The forms of deductive and inductive argument in traditional logic; the fundamentals of modern formal logic.

R 1509 202
 ETHICS AND BUSINESS 3.0
 A study of the meaning of morality in modern world of business. Course contains balance of theory and practice as it examines behavior of business against background of conflicting ethical theory.

R 1509 204
 MORALS AND MEDICINE 3.0
 A study of moral decision making in regard to specific moral problems arising in such areas of contemporary medical research and practice as experimentation on human subjects, euthanasia, abortion, information rights of patients, and eugenic sterilization.

R 1509 206
 PHILOSOPHICAL ISSUES IN LAW AND JUSTICE 3.0
 An examination of current philosophical accounts of both distributive and retributive justice. Close attention will be paid to such specific issues as the right of society to legislate its common morality, the use of behavior modification techniques on criminal offenders, and the restoration of capital punishment.

R 1509 231
 AMERICAN PHILOSOPHY 3.0
 The major American philosophers and philosophical movements, with emphasis on Peirce, James, Royce, and Dewey.

R 1509 233
 CONTEMPORARY PHILOSOPHERS 3.0
 The major movements in contemporary philosophy, studied through writings of leading exponents.

R 1509 235
MARX AND MARXISM 3.0
 The philosophy of Marx with special attention to his Hegelian background, his concept of man, and the genesis of his social and political philosophy. Engels, Lenin and contemporary existentialist marxism are considered briefly.

R 1509 237
ORIENTAL PHILOSOPHY 3.0
 Philosophical interpretations of experience and reality in representative movements of eastern thought.

R 1509 239
EXISTENTIALISM 3.0
 The major themes and concepts of existentialism in selected writings of the existentialist philosophers.

R 1509 260
PHILOSOPHIES OF ART 3.0
 The major philosophies of art in the history of western thought. The conceptual network of ideas of the thinker in question will be delineated, and connections shown between the thinker and the philosophical and artistic themes of that period.

R 1509 262
PHILOSOPHY OF RELIGION 3.0
 The nature and shape of religious experience, criteria for meaning within religious thought and language. Metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death.

R 1509 264
CRITICAL REASONING AND ARGUMENT 3.0
 An intermediary level course, concentration upon argumentation and rhetorical devices as they actually function in every day conversation, philosophical discussion, forensic debate, etc. Arguments will be examined with an eye to penetrating purely formal structure and discovering the underlying dynamics which contribute to cogency in a given context.

R 1509 266
PHILOSOPHY OF SCIENCE 3.0
 The epistemological character of scientific thought and the relevance of scientific findings for the clarification and eventual resolution of traditional philosophical issues.

R 1509 268
PHILOSOPHICAL THEORIES OF HISTORY 3.0
 Speculative and critical theories of history, with special attention to epistemological issues such as the nature of historical understanding and explanation, the objectivity of historical knowledge, historical causation and determinism.

R 1509 290
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
 Selected study of major fields in philosophy. Topics announced each semester.

R 1509 292
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
 Selected study of major fields in philosophy. Topics announced each semester.

R 1509 295
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
 Topics announced each semester.

R 1509 310
THEORIES OF KNOWLEDGE AND EXPERIENCE 3.0
 The major issues and theories concerning the relationship between knowledge, experience and reality.

R 1509 316
PHILOSOPHY OF LAW 3.0
 An introduction to the philosophical issues of jurisprudence. Close attention is given to the status and nature of law, the concept of equality and the limits of law.

R 1509 331
ANCIENT PHILOSOPHY 3.0
 The major philosophical systems and movements from the pre-Socratics to Plotinus, with special emphasis on Plato and Aristotle.

R 1509 333
DESCARTES TO KANT 3.0
 The major philosophical systems and movements from the Renaissance to Kant.

R 1509 335
NINETEENTH CENTURY PHILOSOPHY 3.0
 A study of the major philosophical figures and movements of the nineteenth century, with special emphasis on Hegel and the Hegelian tradition.

R 1509 395
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
 Topics announced each semester.

R 1509 424
SEMINAR IN PHILOSOPHY 3.0
 Cooperative research seminars in major movements, problems, philosophers or works. Topics announced each semester.

R 1509 444, 446, 447, 449
INDEPENDENT STUDY IN PHILOSOPHY 3.0-12.0
 Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

R 1599 100
RELIGIONS OF THE WORLD 3.0
 The major religious traditions, with emphasis on basic beliefs and on the nature and diversity of religious awareness.

R 1599 101
INTRODUCTION TO RELIGION 3.0
 An inquiry into man's religious questions and expressions, their implications, and their critical appreciation and assessment.

R 1599 102
HISTORY OF WESTERN RELIGION 3.0
 The theological and ecclesiastical developments of the major living religions of the western world. Emphasis on Judaism and Christianity.

R 1599 103
RELIGION AND MORAL ISSUES 3.0
 Ethical issues as discussed by representative thinkers of the major religious traditions.

R 1599 160
RELIGION OF THE EIGHTIES 3.0
 This course deals with the contemporary religious scene. Special attention is paid to the new modes of religious experience that are developing and their relation to the institutional religious structures.

- R 1599 200
OLD TESTAMENT: GENESIS TO JOSHUA 3.0
The evolution of the ancient Hebrew world view as developed through the Bible in response to historical events and ongoing religious experience of the people of Israel.
- R 1599 202
OLD TESTAMENT: JOSHUA TO DANIEL 3.0
The history and theology of Israelite religion as seen in the biblical books covering the middle and late periods (1150-165 B.C.E.)
- R 1599 204
NEW TESTAMENT: JESUS AND THE GOSPELS 3.0
The evolution of the Christian scriptures from the gospels through the history of the early church, with emphasis on themes of major shapers of Christian faith.
- R 1599 206
NEW TESTAMENT: PAUL AND THE EARLY CHURCH 3.0
The writings of Paul, John and other figures in the apostolic period of the early church.
- R 1599 210
RELIGIONS OF THE NORTH AMERICAN INDIANS 3.0
An introduction to the religious traditions and spirituality of the American Indian peoples.
- R 1599 212
ORIENTAL RELIGIONS 3.0
The cultural and theological bases for the faith and practice of major eastern religions—Buddhism, Confucianism, Hinduism, Taoism.
- R 1599 221
RELIGION AND CULTURE 3.0
The interrelation of religion and culture in the formulation of human values and views, life styles and institutions.
- R 1599 223
RELIGION IN AMERICA 3.0
The growth and development of various religious movements—Protestant, Catholic, Jewish, and sectarian minorities—from colonial times to the present.
- R 1599 225
RELIGION AND SOCIAL CHANGE 3.0
The impact of economic, social and political movements on religious belief and the ways in which religion has both furthered and impeded social development.
- R 1599 229
PHILOSOPHY OF RELIGION 3.0
A philosophical examination of religion. It includes the nature and shape of religious experience, criteria for meaning within religious thought and language, metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death.
- R 1599 231
ORIENTAL PHILOSOPHY 3.0
Philosophical interpretations of experience and reality in representative movements of eastern thought.
- R 1599 263
RELIGION AND PSYCHOLOGY I 3.0
The views of religious man reached by such major psychological approaches as the Freudian, neo-Freudian, analytic-ego, existential and Jungian. Implications of psychology for critical religious thought.
- R 1599 265
RELIGION AND PSYCHOLOGY II 3.0
Selected psychological investigations and/or theories of religious phenomena; the implications for specific and constructive religious thought.
- R 1599 267
WOMEN IN RELIGION 3.0
The roles which have been held by women in the various religious traditions of the world.
- R 1599 269
DEATH AND DYING: RELIGIOUS PERSPECTIVES 3.0
This course is designed to give the student opportunity to study cross cultural religious and philosophical attitudes toward death and the procedures surrounding death. Material for the course will cover rituals of death and dying in both eastern and western religious traditions as well as "secular" rituals associated with death.
- R 1599 273
THE HOLOCAUST: RELIGIOUS PERSPECTIVES 3.0
A study of Nazi extermination of 6,000,000 Jews during World War II and the moral and religious issues raised by this event.
- R 1599 300
CLASSICS OF WESTERN RELIGIOUS THOUGHT 3.0
Selected works of significant theologians of the western tradition on issues such as the nature of God, Christology, Soteriology, Ecclesiology, Theodicy, etc.
- R 1599 302
JUDAISM AND EARLY CHRISTIAN THOUGHT 3.0
The Jewish and Christian foundations of western religious thought from the second to the fifth centuries of the common era.
- R 1599 304
ISLAMIC RELIGIOUS TRADITIONS 3.0
The historical origins of Islam, the emergence and development of various strands of religious tradition, and their impact on the modern world.
- R 1599 325
RELIGION AND MODERN CRITICAL THOUGHT, 1600-1900 3.0
The origin and development of the religious spirit, in the light of modern critical thought, from the rise of science to the end of the nineteenth century.
- R 1599 350
SELECTED STUDY IN WORLD RELIGIONS 3.0
Topics announced each semester.
- R 1599 352
SELECTED STUDY IN RELIGION 3.0
Topics announced each semester.
- R 1599 355
SELECTED STUDY IN RELIGION AND CULTURE 3.0
Topics announced each semester.
- R 1599 357
SELECTED STUDY IN RELIGIOUS THOUGHT 3.0
Topics announced each semester.
- R 1599 401
PHILOSOPHICAL BACKGROUNDS OF WESTERN RELIGION I 3.0
The interrelationships of western religion with philosophy from the pre-Socratics through the Middle Ages. The emergence of classical fields of philosophy.

R 1599403
**PHILOSOPHICAL BACKGROUNDS OF
 WESTERN RELIGION II** 3.0
 The interrelationship of western religion with philosophy in the Renaissance, enlightenment and modern period. The emergence of the autonomous spirit of criticism.

R 1599462
SEMINAR IN RELIGION 3.0
 Cooperative research seminar in major movements, problems, theologians.

R 1599465
SEMINAR IN RELIGION AND CULTURE 3.0
 Cooperative research seminars in major movements, problems, theologians. Topics announced each semester.

R 1599467
SEMINAR IN RELIGIOUS THOUGHT 3.0
 Cooperative research seminars in major movements, problems, theologians or works. Topics announced each semester.

R 1599490
INDEPENDENT STUDY IN RELIGION 3.0-12.0
 Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.

R 1599492, 495, 497
INDEPENDENT STUDY IN RELIGION 3.0-12.0
 Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.



Physical Education, Recreation and Leisure Studies

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Jerry G. Dickason

Physical Education Program

Physical fitness is an essential element in each person's life. Those who graduate with the Bachelor of Science degree in Physical Education may choose either teacher education or adult fitness, a non-teaching concentration. Students concentrate within the major in a variety of areas which equip them for employment in schools, agencies or corporations where fitness is recognized as essential. Physical Education gives students a broad range of activities which develop self-expression and skills for leisure, as well as a high level of physical fitness.

Physical Education (Teacher Education)

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

The Physical Education department has specific requirements for admission to the Teacher Education program. They include a professional experience in each of 4 activity courses for a total of 8 visits to be completed prior to application to Teacher Education. The observations may be in any of the following: team sports, individual and dual activities, elementary school activities, rhythm and dance. Observations must be made in public school and in a class situation. Minimum grade point average 2.50 overall.

Minimum grade point average, 2.67 in physical education specialization courses.

Minimum 15 semester hours in specializations by the end of sophomore year. Transfer students need a minimum of 6 semester hours in physical education courses at Montclair State College.

Required Courses

	Semester Hours
0835 100 Orientation to the Physical Education Profession	1
0835 220 Physiology of Exercise	2
0835 221 Kinesiology	2
0835 222 Basic Motor Learning	2
0835 243 Organization and Administration of Physical Education	2
0835 351 Adapted Physical Education	2
0835 352 Development, Philosophy and Principles of Physical Education (Juniors and seniors only)	1

Activity Courses 1

Collateral Courses:

0837 101	Health for Personal Living	3
1905 107	College Chemistry I	2
1905 108	College Chemistry II	2
0401 240	Mammalian Anatomy and Physiology I	3
0401 241	Mammalian Anatomy and Physiology II	3
0835 355	Measurement and Evaluation in Physical Education (Juniors and seniors only)	3

Specializations Within the Major

Students are required to select a specialization from one of the following. Each requires 15 semester hours of course work.

Individualized Fitness Programs for Specific Populations

Required Courses

		Semester Hours
0879 251	Aerobic Activities	1
0879 257	Weight Training and Conditioning	1
Select one		
0879 263	Jogging	1
0879 278	Yoga	1

Electives (Departmental)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Coaching

Required Courses

0835 150	Principles and Practices of Emergency Care	2
0835 226	Coaching Principles and Problems	3
0835 227	Social Problems in Sport	3
OR		
0837 353	Psychology of Sport	3
Select at least 1 but no more than 2		
0835 301	Coaching Field Hockey	2
0835 303	Coaching Basketball	2
0835 304	Coaching Softball	2
0835 306	Coaching Baseball	2
0835 308	Coaching Football	2
0835 309	Coaching Soccer	2
0835 310	Coaching Swimming and Diving	2
0835 313	Men's Competitive Gymnastics in Schools	2
0835 314	Women's Competitive Gymnastics in Schools	2
0835 317	Coaching Volleyball	2
0835 322	Coaching Golf	2
0835 330	Coaching Tennis	2
0835 332	Coaching Wrestling	2
0835 333	Coaching Track and Field	2

Electives (Departmental)

Select 3-5 semester hours from the appropriate list to be obtained from he department 3-5

Athletic Training

Required Courses

0835 223	Basic Prevention and Care of Athletic Injuries	3
0835 323	Advanced Prevention and Care of Athletic Injuries	3
0835 379	Internship in Athletic Training	4

Electives (Departmental)

Select 5 semester hours from the appropriate list to be obtained from the department 5

Individual Contract

Individualized 15 semester hour program prepared in consultation with an advisor and approved by the department chairperson if existing specialization areas do not meet the student's needs. This specialization must be approved prior to any course selection.

Additional Electives (All Specializations)

Select one with permission from advisor and department chairperson.		
		Semester Hours
0835 380	Internship in Physical Education	4-8
0835 381	Cooperative Education in Physical Education	4-8
0835 399	Independent Study in Physical Education	1-6
0835 492	Selected topics in Physical Education	1-3

Concentration Within the Major

Adult Fitness
(Non-Teaching Certification)

Required Courses

		Semester Hours
0835 100	Orientation to the Physical Education Profession	1
0835 220	Physiology of Exercise	2
0835 221	Kinesiology	2
0835 222	Basic Motor Learning	2
0835 243	Organization and Administration of Physical Education	2
0835 351	Adapted Physical Education	3
0835 352	Development, Philosophy and Principles of Physical Education	3

Activity Courses 17

Theory Specialization Core 25-27

Select one		
0835 150	Principles and Practices of Emergency Care	2
0835 223	Basic Prevention and Care of Athletic Injuries	3
Select one		
0835 375	Foundations and Practices in Cardiac Rehabilitation	3
0835 340	Fitness and the Aging Process	4
Select one		
0835 380	Internship in Physical Education	8
0835 381	Cooperative Education in Physical Education	8
Required		
0838 101	Contemporary Business	3
1306 182	Nutrition	3
0842 331	Group Dynamics	3
0509 340	Introduction to Marketing	3

Collateral Courses 16

0837 101	Health for Personal Living	3
1905 107	College Chemistry I	2
1905 108	College Chemistry II	2
0401 240	Mammalian Anatomy and Physiology I	3
0401 241	Mammalian Anatomy and Physiology II	3
0835 355	Measurement and Evaluation in Physical Education (Juniors and seniors only)	3

Physical Education and Health Dual Teacher Certification Requirements

Required Courses

Physical Education Theory	18
(same as for Physical Education)	
Activity	17
(Same as for Physical Education)	
Health (Health for Personal Living is included)	24
0837 290 Human Sexuality	3
0837 411 The School Health Program	3
0837 401 Teaching of Health	3
0837 413 The Drug Abuse Problem	3
Select One	
0837 210 Consumer Health	3
0837 220 Mental Health	3
0837 240 Foundations of Environmental Health	3
Select Two	
0837 305 Communicable Diseases	3
0837 310 Chronic and Degenerative Diseases	3
0837 315 Community Health	3

Collateral Courses 16

0837 101 Health for Personal Living	3
1905 107 College Chemistry I	2
1905 108 College Chemistry II	2
0401 240 Mammalian Anatomy and Physiology I	3
0401 241 Mammalian Anatomy and Physiology II	3
0835 355 Measurement and Evaluation in Physical Education (Juniors and seniors only)	3

Professional Sequence for Teacher Education 30

The sequence is the same as for Physical Education Major *except* both Health Teaching and Physical Education Teaching are required in the supervised student teaching.

Recreation and Leisure Studies Program

As more leisure time becomes available, the opportunity for leadership in both the public and private areas of recreation and leisure enterprises grows. A student who enrolls in the department's program can earn a Bachelor of Science degree in various areas such as commercial recreation and tourism, community recreation and leisure services, outdoor recreation and recreation resource management. Each of these concentrated areas of study is designed to prepare the student for either immediate entry into the profession or graduate study. Emphasis is placed on developing leadership skills for supervisory and management levels.

Courses are also open as electives for those majoring in other fields. Here the emphasis is placed on the role of recreation and leisure in life-planning and community service.

Recreation and Leisure Studies Major

Required Courses

	Semester Hours
2103 123 Leadership Techniques in Social Recreation	2
2103 124 Introduction to and History of Recreation and Leisure Services	4
2103 225 Program Planning in Recreation and Leisure	3
2103 228 Recreation for Special Populations	3
2103 231 Park Planning and Design	2
2103 322 Philosophy of Recreation and Leisure	2
2103 334 Research Methods in Recreation and Leisure Services	3

2103 430 Management of Recreation and Leisure Services	4
2103 437 Senior Seminar	2
2103 489 Fieldwork in Recreation and Parks	14
Recreation concentration students are required to select an 18 semester hour concentration in their major.	

Collateral Courses

0502 200 Accounting for Non-Business Majors	3
1506 441 Group Discussion and Leadership	3
2204 100 Introduction to Economics	3
2001 260 Social Psychology	3

Concentrations Within the Major

Commercial Recreation and Tourism

Required Courses

	Semester Hours
2103 340 Introduction to Commercial Recreation and Tourism	3
2103 342 Delivery of Commercial Recreation and Tourism Services	3
2103 346 Tourism and Commercial Recreation, Planning, Development, and Analysis	3
Select One	
0603 280 Elements of Public Media	3
1506 271 Interpersonal Communication I	3
2208 407 Sociology of the Mass Media	3
Select One	
0509 340 Introduction to Marketing	3
0509 344 Advertising Media	3
0844 208 Salesmanship	3
Select One	
2206 204 Principles of Land Use	3
0506 335 Small Business Management	3
0506 433 Entrepreneurship and Innovation	3
0701 107 Computers and Society	2

Community Recreation and Leisure Services

Required Courses

2103 250 School – Community Recreation	3
2103 352 Marketing Techniques in Recreation and Leisure Services	3
2103 312 Budget and Finance in Recreation and Parks	3
2103 367 Management and Maintenance of Recreation and Park Areas and Facilities	3

Electives

Select One	
2204 308 Public Finance	3
2207 311 Governmental Budgeting	3
2204 204 Labor Economics	3
Select One	
2207 302 Public Opinion and Pressure Groups	3
2207 309 Urban Politics	3
2103 252 Recreation Needs of Urban Society	3

Outdoor Recreation and Recreation Resource Management

Outdoor Recreation Planning and Design

Required Courses

2103 360 Outdoor Recreation Planning	3
2103 365 Technical Design of Recreation and Park Areas and Facilities	3

Select Two		
2103 346	Tourism and Commercial Recreation, Planning, Development, and Analysis	3
1914 250	Map Reading and Cartography	3
1914 251	Aerial Photograph Interpretations	3
Select Two		
2103 367	Management and Maintenance of Recreation and Park Areas and Facilities	3
4922 341	History of City Form	3
4922 400	Designing Learning Environments	3

OR: Outdoor Recreation and Park Management

Required Courses

2103 312	Budget and Finance in Recreation and Parks	3
2103 361	Implementation of Outdoor Recreation Programs	3
2103 360	Outdoor Recreation Planning	3
2103 367	Management and Maintenance of Recreation and Park Areas and Facilities	3

Select One

2206 203	Our Finite Earth: Population and Resources	3
2207 302	Public Opinion and Pressure Groups	3
2103 346	Economics of Outdoor Recreation and Tourism	3
Select One		
2206 201	Climatology	3
1914 221	Conservation of Natural Resources	3
0401 426	New Jersey Flora	4

OR: Outdoor Program Implementation and Interpretive Services

Required Courses

2103 360	Outdoor Recreation Planning	3
2103 361	Implementation of Outdoor Recreation Programs	3

Select 6 semester hours

0843 501	Outdoor Teaching for Environmental Education	3
0843 462	Practicum in Camping Education and Administration	3
0843 495	Workshop Utilizing Natural Environments	1
0843 496	Field Studies in Humanities and Natural Science	1

Select 6 semester hours

0843 497	Field Studies in Social Studies and Outdoor Recreation	1
0835 224	Camping and Outdoor Education	2
1914 221	Conservation of Natural Resources	3
0401 370	Principles of Ecology	3

OR: General Outdoor Recreation

Required Courses

2103 360	Outdoor Recreation Planning	3
----------	---------------------------------------	---

Select One

2103 365	Technical Design of Recreation and Park Areas and Facilities	3
1914 250	Map Reading and Cartography	3
1914 251	Aerial Photograph Interpretation	3

Select One

2103 346	Economics of Outdoor Recreation and Tourism	3
2206 109	The Human Environment	3
2206 203	Our Finite Earth: Population and Resources	3
2207 302	Public Opinion and Pressure Groups	3

Select One

2103 367	Management and Maintenance of Recreation and Park Areas and Facilities	3
----------	--	---

0401 370	Principles of Ecology	3
2206 201	Climatology	3
1914 221	Conservation of Natural Resources	3

Select 3 semester hours

0843 501	Outdoor Teaching for Environmental Education	3
0843 462	Practicum in Camping Education and Administration	3
0843 495	Workshop Utilizing Natural Environments	1
0843 496	Field Studies in Natural Science	1

Select 3 semester hours

2103 361	Implementation of Outdoor Recreation Programs	3
0843 497	Field Studies in Social Studies and Outdoor Recreation	1
0843 224	Camping and Outdoor Education	2

Therapeutic Recreation

Required Courses

2103 271	Clinical Experiences in Therapeutic Recreation	4
2103 370	Therapeutic Recreation	1
2103 377	Programming and Supervision in Therapeutic Recreation	4

Selected and determined with the approval of an academic advisor in the department of Physical Education, Recreation and Leisure Studies 9

Courses of Instruction

Physical Education

80835 100
ORIENTATION TO THE PHYSICAL EDUCATION PROFESSION 1.0
A professional orientation and an introduction to the breadth of the field of physical education in schools, industry and community agencies.

80835 101
FIELD HOCKEY 1.0
Individual skill development in hockey, analysis of individual skills, team tactics, and defensive strategy and rules, practical application in game situations.

80835 102
SOCCER 1.0
The history, development and present status of the sport. Basic skills, game strategy, rules, terminology and specifics concerning class organization, safety and evaluation will be presented.

80835 103
BASKETBALL 1.0
Learning experiences in the skills and techniques of basketball rules, offensive and defensive team strategy.

80835 104
SOFTBALL 1.0
Skills, techniques, rules and concepts of team play and strategy essential to this sport and playing the game.

80835 106
BASEBALL 1.0
Methods, theory, skill testing and class organization for effective teaching of baseball.

80835 108	1.0	80835 124	1.0
FOOTBALL		BADMINTON	
The history, development and present status of the sport, basic skills and game strategy, rules and specific techniques concerning class organization, safety and evaluation.		A comprehensive analysis of the techniques and skills of the sport; current trends, rules, terminology, equipment and game strategy.	
80835 110	1.0	80835 126	1.0
AQUATICS		ARCHERY	
For those with a minimum amount of aquatic knowledge and skill. Swimming strokes, water stunts and springboard diving. Organization for teaching groups and safety precautions.		The development and present status of archery; basic skills, tournament strategy and rules.	
80835 111	1.0	80835 128	1.0
LIFESAVING		FENCING	
Developing individual skill and confidence in lifesaving and water safety skills. Open to undergraduate women and men.		The history, rules, skills, progression and teaching techniques of fencing.	
<i>Prerequisites: (1) Perform standing front dive, (2) swim 440 yds. continuously using various strokes, (3) dive from surface to minimum depth of six feet and swim 15 feet underwater, (4) tread water one minute.</i>		80835 130	1.0
80835 112	1.0	TENNIS	
WATER SAFETY INSTRUCTION		The development and present status of this sport; basic skills, learn game strategy and rules.	
This course follows the standards and procedures for certification by the American Red Cross.		80835 131	2.0
<i>Prerequisite: A current A.R.C. senior lifesaving card.</i>		FITNESS ACTIVITIES	
80835 113	2.0	A comprehensive course provided for knowledge needed for developmental programming of personalized fitness activities utilizing all modes of fitness training.	
MEN'S GYMNASTICS AND TUMBLING		80835 132	1.0
Develop skill in tumbling and gymnastics and demonstrate an understanding of skill. Levels appropriate for all grade levels. Safety measures concerning the equipment and spotting.		WRESTLING	
80835 114	2.0	The history, development and present status of wrestling; basic skills, strategy, rules and specific techniques concerning class organization safety and evaluation.	
WOMEN'S GYMNASTICS AND TUMBLING I		80835 134	1.0
Developing skills on the apparatus; demonstrating an understanding of skills for elementary through high school. Safety measures related to equipment and spotting. Students perform progression for basic skills on all equipment.		TRACK AND FIELD	
80835 115	1.0	Techniques for performance and analysis of all track and field activity, including cross-country.	
LACROSSE		80835 140	1.0
The history, development, and present status of the sport will be studied. The student will develop basic skills and learn game strategy, rules and specific techniques concerning class organization, safety and evaluation.		MOVEMENT EDUCATION AND RHYTHM	
80835 116	1.0	Each student recognizes and develops one's own innate capacities for natural, coordinated movement. As a basis for any physical education activity, this course presents theory, materials, and methods, for the teaching of correct movement and rhythm in the secondary schools. Creativity will be encouraged.	
VOLLEYBALL		80835 141	1.0
The student is provided with the history, development, and present status of the sport; analysis of basic skills, game strategy, rules, terminology, plus specifics concerning class organization, safety and evaluation.		AMERICAN FOLK AND SQUARE DANCE	
80835 118	2.0	Skills and teaching methods in folk and square dance. The student will also experience calling a square dance.	
WOMEN'S GYMNASTICS AND TUMBLING II		80835 142	1.0
To provide the student with knowledge of and skill in advanced techniques in women's gymnastics and tumbling, applicable for secondary school students. Spotting and safety measures will be emphasized.		EUROPEAN FOLK DANCE	
<i>Prerequisites: Performance required prior to registration, may be taken in lieu of women's gymnastics and tumbling, consult the department chairperson first.</i>		This course will cover beginning to advanced dances from the various European countries.	
80835 120	1.0	80835 143	1.0
BOWLING		SOCIAL DANCE	
The history, rules, techniques, strategies, terminology and rules are discussed; and students attend classes at bowling alleys for practical experience.		The fundamentals of social dance are presented to the student.	
80835 122	1.0	80835 150	2.0
GOLF		PRINCIPLES AND PRACTICES OF EMERGENCY CARE	
To permit students to attain the minimum skill necessary for understanding the fundamentals of this sport.		This is a combined lecture and practical course designed to acquaint the student with purposes and principles of safety in contemporary society and the handling of emergency situations of illness or accident.	
		80835 201	1.0
		ADVANCED FIELD HOCKEY	
		The student is provided with advanced skills and team strategies of the game. Analysis of skills and actual teaching experience will be emphasized along with selection and care of equipment.	

8 0835 203			8 0835 227		
ADVANCED BASKETBALL	1.0		SOCIAL PROBLEMS IN SPORT	3.0	
An analysis of the individual skills of basketball, game concepts, instructional techniques and basic team strategies.			Designed to analyze a number of important and controversial issues of sports in American society.		
8 0835 204			8 0835 230		
ADVANCED SOFTBALL	1.0		MODERN DANCE IN PHYSICAL EDUCATION	1.0	
This course will deal with advanced skills and team strategies. Theory, skills and concepts of the game in a practice situation.			This course is designed to provide the physical education student with the skills and knowledge to teach a basic unit in modern dance in the schools.		
8 0835 216			8 0835 235		
ADVANCED VOLLEYBALL	1.0		PHYSICAL EDUCATION ACTIVITIES IN THE ELEMENTARY SCHOOL	2.0	
Advanced skills, various offensive and defensive strategies, advanced team play. Practice procedures, formation, techniques and evaluation criteria with regard to class organization.			To provide the student with information concerning the physical, social, intellectual and emotional characteristics of the elementary school child, and the selection and teaching of appropriate non-sport activities in physical education.		
8 0835 220			8 0835 240		
PHYSIOLOGY OF EXERCISE	2.0		GYMNASTICS FOR ELEMENTARY SCHOOL	2.0	
The physiological effects of activity upon the human organism. The reaction of exercises of speed, strength and endurance upon the circulatory, respiratory and muscular systems. The causes of fatigue, staleness and exhaustion.			The methods and materials in gymnastics for elementary schools through a sensorimotor approach to learning and performance.		
<i>Prerequisites: W 0401 244, 245.</i>			<i>Prerequisite: 8 0835 113 or 114.</i>		
8 0835 221			8 0835 241		
KINESIOLOGY	2.0		MEN'S GYMNASTICS FOR SECONDARY SCHOOL	2.0	
In-depth analysis of the anatomy of the skeletal and muscular systems. The physical principles of movement and the anatomical derivation of motion utilizing this knowledge in teaching and coaching.			Methods and materials in gymnastics for secondary school physical education. The organization of gymnastic movements for learning according to their similarities in difficulty and execution. The role of the teacher in facilitating skill development in gymnastics.		
<i>Prerequisites: W 0401 244, 245.</i>			<i>Prerequisite: 8 0835 113 or 114.</i>		
8 0835 222			8 0835 242		
BASIC MOTOR LEARNING	2.0		WOMEN'S GYMNASTICS FOR SECONDARY SCHOOL	2.0	
The physical and psychological factors related to motor learning in physical education activities. The role of the teacher in facilitating motor skill development.			Methods and materials in gymnastics which are applicable for teaching in the secondary schools. Methods of teaching tumbling and apparatus work.		
<i>Prerequisites: W 0401 244, 245.</i>			<i>Prerequisite: 8 0835 113 or 114.</i>		
8 0835 223			8 0835 243		
BASIC PREVENTION AND CARE OF ATHLETIC INJURIES	3.0		ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION	2.0	
Introduction to aspects of sports medicine which are necessary to the safe conduct of sports. The physiological and medical bases of treatment, management procedures and skills in the application of treatment. Medical and safety problems, protective equipment and facilities, training techniques, and nutrition and diet. For men and women. Lecture as well as training room experience.			Legislation, financing, plant facilities, care and purchase of supplies and equipment, office management and records, intramural programming and tournaments, and conduct of varsity sports.		
8 0835 224			8 0835 301		
CAMPING AND OUTDOOR EDUCATION	2.0		COACHING FIELD HOCKEY	2.0	
This dual course introduces the student to outdoor education and camping. A basic view of the outdoor education field, especially as it relates to elementary and secondary education. Introduction to recreational (individual and small group), and organized camp.			Concepts and organizational procedures for coaching field hockey skills, offensive and defensive strategies and rules.		
8 0835 225			8 0835 303		
DANCE AND RHYTHMS FOR ELEMENTARY SCHOOL CHILDREN	2.0		COACHING BASKETBALL	2.0	
Materials and methods for the teaching of dance and other rhythm activities for elementary school children. Development of effective rhythm and dance programs. A minimum of 6 hours of practical experience with children is required.			Coaching basketball at all levels of competition. Individual advanced skills, team strategies and educationally sound coaching techniques.		
<i>Prerequisite: 8 0835 140.</i>			8 0835 304		
8 0835 226			COACHING SOFTBALL	2.0	
COACHING PRINCIPLES AND PROBLEMS	3.0		Concepts and organizational procedures for coaching softball. Skills, offensive and defensive strategies and rules.		
A practical guide to ethics, principles and organizational problems of coaching. Provides the beginning coach with the information necessary to help him deal effectively with common problems of athletic competition.			8 0835 306		
			COACHING BASEBALL	2.0	
			Individual skills and team techniques of coaching baseball administration and organization of practice sessions for effective learning.		

- 80835 308
COACHING FOOTBALL 2.0
Techniques and methods of coaching football with emphasis on team play. Offensive and defensive methods for running, passing and kicking game. Complete organization of a football program is presented.
- 80835 309
COACHING SOCCER 2.0
The fundamental concepts of coaching soccer on the interscholastic level; physiological and psychological effects of participation.
- 80835 310
COACHING SWIMMING AND DIVING 2.0
Practical knowledge of coaching swimming and diving. Coaching theory, the perfecting of skills and conditioning procedures.
- 80835 312
AQUATIC ART 2.0
The creative development of strokes, stunts, and styles of swimming utilized in aquatic art. Patterns, formations, staging, costuming, selection of music and conditioning and training techniques.
- 80835 313
MEN'S COMPETITIVE GYMNASTICS IN SCHOOLS 2.0
For the student who desires to become a special teacher or coach of advanced gymnastics. The terminology of the sport, training methods, current trends in requirement for performance, organization and the fig rules. Methods of teaching and the application of sound safety procedures. Advanced gymnastics examined critically in the light of physiological and mechanical factors.
Prerequisite: 80835 113 or 114.
- 80835 314
WOMEN'S COMPETITIVE GYMNASTICS IN SCHOOLS 2.0
Coaching competitive gymnastics, women's gymnastics, dance in gymnastics, training methods on the four olympic events, techniques and skill analysis.
Prerequisite: 80835 113 or 114.
- 80835 317
COACHING VOLLEYBALL 2.0
Advanced playing strategies and information for coaching the advanced student at high levels of competition. Philosophy of coaching, characteristics and responsibilities of a coach.
- 80835 322
COACHING GOLF 2.0
Methods and techniques of coaching golf. Medal and match play strategy. The organization of a complete golf program, drills, fundamental strokes, rules and etiquette.
- 80835 323
ADVANCED PREVENTION AND CARE OF ATHLETIC INJURIES 3.0
Designed to provide the student with in-depth information and practical experience in prevention, care and rehabilitation of athletic injuries. Individuals selecting this course should be preparing to become certified trainers (NATA).
Prerequisite: 80835 223.
- 80835 330
COACHING TENNIS 2.0
The techniques and methods of coaching tennis. Strategy of single and doubles play. Complete organization of a tennis program, including a review of basic strokes, drills, rules and tennis etiquette. Planning, scheduling and organization of tournaments and inter-school competition.
- 80835 332
COACHING WRESTLING 2.0
Techniques and methods of coaching wrestling. Emphasis on developing programs, mat tactics and strategy.
- 80835 333
COACHING TRACK AND FIELD 2.0
Integrating philosophy, psychology, principles and techniques of track and field activities with actual practice. For men and women with appropriate concentrations as well as a common core of activities.
Prerequisite: 80835 134, or instructor's permission.
- 80835 340
FITNESS AND THE AGING PROCESS 4.0
The course will deal with the physiological, emotional and social changes experienced by the older adult as he/she moves through the aging process. The student will be helped to assess fitness needs based on these findings and to select appropriate activities. Methods and techniques for communicating with and teaching the older adult will be an important part of the course content. Field trips and observations of older adult activities will also be included.
Prerequisites: 80835 220, W 0401 244, 245.
- 80835 345
AQUATIC MANAGEMENT 3.0
Designed to provide skills and knowledge in the area of aquatic management which will enable the student to develop appropriate programs at swim clubs, community pools, camps and health clubs.
- 80835 351
ADAPTED PHYSICAL EDUCATION 3.0
A lecture and participation course covering the philosophy and goals of adapted physical education for children with handicaps. A minimum of 3 hours per week of clinical experience in schools, clinics and/or hospitals is required.
Prerequisites: W 0401 244, 245.
- 80835 352
DEVELOPMENT, PHILOSOPHY AND PRINCIPLES OF PHYSICAL EDUCATION 3.0
History and development from primitive to modern times. Principles of physical education in the light of scientific knowledge, aims and objectives. The place in the total education program. May not be taken until the junior year.
- 80835 353
PSYCHOLOGY OF SPORT 3.0
Designed for undergraduate students to study field of psychology as related to world of sport. Major emphasis is placed on emotional, attitudinal and personality aspects as related to athletics. In addition, factors on motivation, cultural and sociological problems of athletes will be considered. Course also covers areas of research in sport psychology.
- 80835 355
MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION 3.0
Tests and measurements specifically concerned with the area of physical education. Tests and measurements as tools for better teaching as well as for research. Open to juniors and seniors only.
- 80835 357
TEACHING OF PHYSICAL EDUCATION 4.0
Methods of teaching and principles of learning as they apply to growth, development and movement. Urban, inner city, suburban and rural situations and conditions related to learning facilities and equipment.
Prerequisite: Admission to Teacher Education program.

80835 359
**ORGANIZATION AND ADMINISTRATION
 OF ATHLETICS** 2.0
 For those who expect to become teachers, supervisors and athletic directors. Athletics eligibility, management, equipment, records, intramural programming and tournaments, awards, finances, budgets, safety, maintenance, planning of facilities, junior and senior high school athletic trends.

80835 361
**PHYSICAL ACTIVITY FOR THE EMOTIONALLY
 HANDICAPPED** 2.0
 Identifying the levels of emotional handicaps experienced by children. Understanding psychological and social needs. Activities suitable for meeting the needs of these children.

80835 362
**PHYSICAL ACTIVITY FOR THE MENTALLY
 HANDICAPPED** 2.0
 Current practices, problems, legislation and financing of programs for the mentally retarded. Developing a physical activity program to meet the needs of the educable and trainable mentally retarded.

80835 363
**PHYSICAL ACTIVITY FOR THE SENSORY
 HANDICAPPED** 2.0
 Provides information concerning the needs of those with sensory handicaps and some understanding concerning their social and psychological needs and present materials in physical education activities suitable for each handicap.

80835 375
**FOUNDATIONS AND PRACTICES IN CARDIAC
 REHABILITATION** 3.0
 Knowledge and skills related to cardiac rehabilitation which are necessary for working with post-cardiac individuals in the post-hospital continuing exercise program. Students will be expected to demonstrate a high level of competence in all aspects of the course.
Prerequisites: 80835 220, W 0401 244, 245, instructor's permission.

80835 379
INTERNSHIP IN ATHLETIC TRAINING 4.0
 Designed for the student interested in becoming certified as a trainee (NATA). Through an internship program the student will be provided the opportunity to apply the background information obtained in both basic and advanced prevention and care of athletic injuries course. The proposed course will also meet the NATA requirement for field experience. This course available to students not completing the student teacher experience only.
Prerequisites: 80835 150, 223, 323.

80835 380
INTERNSHIP IN PHYSICAL EDUCATION 4.0-8.0
 Intended only for those students who have tentatively identified a career goal. Experience selected will be closely related to the career aspiration of the student. On-the-job experiences in the areas of organizations and agencies where professional competency will be utilized as related to the career goals of the student. Available to students not completing the student teacher sequence only.
Prerequisite: Minimum of 60 semester hours completed.

80835 381
**COOPERATIVE EDUCATION IN PHYSICAL
 EDUCATION** 4.0-8.0
 Integrates academic study with supervised employment outside the formal classroom environment. The co-op term is a semester off campus during which a student, while supervised by a department faculty coordinator, is responsible for completing the terms of a predetermined learning contract. Available to students not completing the student teacher sequence only.
Prerequisites: 60 semester hours completed, 2.45 grade point average, 2.67 major grade point average, or instructor's permission.

80835 399
**INDEPENDENT STUDY IN PHYSICAL
 EDUCATION** 1.0-6.0
 Provides an opportunity to pursue independent study in one of the specialized areas of physical education.

80835 492
**SELECTED TOPICS IN PHYSICAL
 EDUCATION** 1.0-3.0
 A theoretical and practical in-depth study in a current aspect of physical education. Topics will be determined prior to course offering and publicized.

Non-Major Courses

80879 200
BEGINNING SWIMMING 1.0
 Fundamentals, strokes of swimming and safety in the water are stressed.

80879 201
SPRINGBOARD DIVING 1.0
 Techniques of springboard diving. Progression of skills and safety measures will be emphasized.
Prerequisites: Completion of a swimming course at MSC with minimum B grade or instructor's permission.

80879 202
BADMINTON 1.0
 The history, techniques, strategies, terminology and rules of badminton are discussed.

80879 203
GOLF 1.0
 To permit the student to attain the minimum skill necessary for enjoying this individual type of game.

80879 204
**ETHNIC AND CULTURAL ASPECTS OF PHYSICAL
 ACTIVITY** 2.0
 This course will involve the student in study of ethnic style philosophy and culture of international dance. The development of folk festivals. A study of folklore arts of geographical areas. A study of an experimentation with unusual recreational and sport activities from other countries. The development of performance skills will be a part of the course.

80879 227
**ANATOMICAL AND PHYSIOLOGICAL FOUNDATIONS OF
 COACHING** 3.0
 Designed for the non-physical education major who desires to coach athletics.

80879 228
MECHANICS OF ATHLETIC PERFORMANCE 3.0
 Designed for the non-physical education major who is interested in athletic coaching.
Prerequisites: 80835 220, 80879 227.

80879 229
WOMEN IN SPORT 3.0
 This course traces a variety of factors that have affected the development of sports participation for women.

80879 240
PLATFORM TENNIS 1.0
 The origin, development and present status in the sport of platform tennis will be studied. Basic skills, game strategy, and rules will be taught and applied.

80879 242
RACQUETBALL 1.0
 The origin, development, and present status in the sport of racquetball will be studied. Basic skills, game strategy, and rules will be taught and applied.

80879 250
INTERMEDIATE SWIMMING 1.0
 This course is designed for men and women who have at least a minimum amount of aquatic knowledge and skill. The scope of the course will cover a wide area of swimming strokes, water stunts, and springboard diving. Organization for teaching groups and safety procedures will also receive emphasis.

80879 251
AEROBIC ACTIVITIES 1.0
 The development of movement patterns, endurance and cardiovascular fitness emphasized.

80879 252
ARCHERY 1.0
 Fundamentals and use of archery as a leisure pursuit.

80879 253
GYMNASTICS 1.0
 Gymnastics and conditioning and development of skills in gymnastic movements.

80879 257
WEIGHT TRAINING AND CONDITIONING 1.0
 For developing strength and general body conditioning.

80879 258
BEGINNING TENNIS 1.0
 Fundamental skills of tennis, singles and doubles play. Appreciation of tennis as a leisure pursuit.

80879 260
BEGINNING RIDING 1.0
 Techniques for the beginner. Taught at a riding academy.

80879 261
FENCING 1.0
 Fundamentals of fencing. Understanding of fencing as a sport.

80879 262
VOLLEYBALL 1.0
 Basic skills, game strategy and rules taught. Power volleyball for more advanced players.

80879 263
JOGGING 1.0
 Proper techniques for jogging stressed, development of cardiovascular fitness through progressive running.

80879 264
SOCCER 1.0
 The origin, development, and present status of soccer will be studied. Basic skills, game strategy, and rules will be taught and applied. As a service course to non-physical education majors, the principal aim is to introduce the student to the fundamentals of soccer.

80879 265
FIGURE SKATING 1.0
 Figure skating for the novice taught at an off-campus skating rink.

80879 266
SKIING 1.0
 The student is provided with information pertaining to basic techniques, safety, etiquette, and equipment relevant to his level of skiing. Instruction will be given on the slope for five weeks along with additional information to be given on campus. An additional fee is required for lift tickets and rental equipment.

80879 267
ADVANCED SWIMMING 1.0
 The course is designed for men and women who have at least a minimum amount of knowledge and skill to move comfortably in deep water.

80879 268
BICYCLING 1.0
 Bicycle safety, care of the bicycle and skill in riding a bicycle in a variety of situations.

80879 270
FOLK AND SQUARE DANCE 1.0
 This course covers the history, techniques and styles of a wide variety of folk and square dances.

80879 271
SOCIAL DANCE 1.0
 The course covers the traditional ballroom dances as well as current popular styles and routines.

80879 272
BOWLING 1.0
 Scoring, league play, and the use of bowling as a leisure pursuit.

80879 274
SCUBA DIVING 1.0
 Scuba diving techniques and safety.

80879 275
BEGINNING KARATE 1.0
 Beginning karate. Skills and development of personal ability in performance of the activity.

80879 278
YOGA 1.0
 Instruction will be given in how to perform yoga postures, plus the techniques of breathing, relaxation, awareness, and concentration, with their proper progression. The historical and psychological factors involved in the development of yoga, and its increasingly widespread appeal physically and philosophically will be dealt with.

Recreation and Leisure Studies

82103 101
LIFETIME ACTIVITIES 2.0
 Introduction to a variety of lifetime activities through lecture, demonstration, visitation, and actual participation. Emphasis placed on benefits of each activity, equipment and facility needs, awareness of present participation levels, safety and basic skills in order to encourage lifelong participation. Field visits required.

82103 103
TEAM ACTIVITIES IN RECREATION SETTINGS 2.0
 Introduction to the fundamental skills and rules of various team activities. Experience in adapting and applying leadership techniques in order to meet the needs of those people who participate in different recreation settings. Special considerations include the benefits of team activities, safety factors, personality and environmental factors, and the pros and cons of competitive activity.

8 2103 105
OUTDOOR RECREATION SKILLS 2.0
 Introduction to a wide variety of outdoor recreation and leisure pursuits with emphasis upon skill acquisition. Field visits required.

8 2103 107
WINTER OUTDOOR RECREATION SKILLS 2.0
 Taught at the New Jersey School of Conservation. Emphasizes the development of outdoor recreation skills by direct participation in various activities including ski touring, snowshoeing, ice fishing, curling, and winter survival. If weather is unseasonably mild, substitutes such as rock climbing, orienteering and backpacking will be taught. A special fee includes room, board, and equipment use.

8 2103 109
SPRING OUTDOOR RECREATION SKILLS 2.0
 Field application of the basic skills learned in the fall and new skills based on water resources. Students will be in residence at the New Jersey School of Conservation for 5 days during the regular spring recess. A special fee includes room, board and equipment use. (Students may count only one course from 8 2103 105, 107, 109 toward their major.) Department chairperson's approval.

8 2103 123
LEADERSHIP TECHNIQUES IN SOCIAL RECREATION 2.0
 Activity level leadership needed for organizing individual and group participation in social recreation settings. Application of acquired techniques in the planning, execution and evaluation of a variety of recreation games and activities. Fieldwork required.

8 2103 124
INTRODUCTION TO AND HISTORY OF RECREATION AND LEISURE SERVICES 4.0
 History, theory, philosophy and introduction to the professional areas of recreation and leisure services. Significance of recreation and leisure in contemporary living.

8 2103 208
LEISURE AND RECREATION IN SOCIETY 3.0
 Analysis and interpretation of the concepts of leisure. Its role in individual, community and national lifestyles, its social and economic significance. The role of recreation programs and services in meeting current and future needs of society. Non-majors only.

8 2103 211
AQUATICS IN RECREATION 2.0
 Managerial and supervisory leadership in the operation of aquatic facilities and programs in the public and private recreation and leisure enterprises. Emphasis placed on evaluative standards and requirements in the planning and promotion of aquatic facilities and programs.

8 2103 225
PROGRAM PLANNING IN RECREATION AND LEISURE 3.0
 Theory, principles, and practices of systematic program planning. Field observation and participation is required.
Prerequisites: 8 2103 123, 124.

8 2103 228
RECREATION FOR SPECIAL POPULATIONS 3.0
 Adaptation of recreation and leisure services for persons with special needs and limitations. Role of institutions and community agencies. Specialized leadership techniques. Modification requirements for areas, facilities equipment, and supplies.
Prerequisite: 8 2103 225.

8 2103 231
PARK PLANNING AND DESIGN 2.0
 An introduction into the basic planning and design aspects of park operations. Emphasis on the managerial responsibilities in the construction and operation of recreation and park areas and facilities. Includes inquiry into professional ethics and professional standards in park administration. Field visits required.
Prerequisite: 8 2103 124.

8 2103 250
SCHOOL-COMMUNITY RECREATION 3.0
 Inquiry into the historical and contemporary processes and practices utilized in the planning and development of school and community resources for recreation and leisure.

8 2103 252
RECREATION NEEDS OF URBAN SOCIETY 3.0
 Survey and evaluation of leisure and recreation as a social force. Recreation history and philosophy in light of changing times. Present and future recreational needs and problems of urban society.

8 2103 271
CLINICAL EXPERIENCES IN THERAPEUTIC RECREATION 1.0-3.0
 Individualized student placements in clinical settings provide opportunity to gain firsthand knowledge of therapeutic recreation and prescriptive programming services.
Prerequisites: W 0401 240, 241.

8 2103 285
FIELD EXPERIENCE IN RECREATION AND PARKS 2.0-4.0
 Supervised on-site laboratory experience in an approved recreation or leisure service area. Seminar meetings and individual conferences required.
Prerequisite: Department chairperson's approval.

8 2103 299
SELECTED TOPICS RECREATION AND PARK ADMINISTRATION 1.0-3.0
 Professional inquiry into the study of a selected issue, problem or trend in recreation and park administration.
Prerequisite: Department chairperson's approval.

8 2103 1299
WINTER OUTDOOR RECREATION FACILITY OPERATIONS 2.0
 One-week course in New England recreation region. On-site lectures on planning, design programming, maintenance and administration of selected winter sport facilities. Special meetings held with regional tourism associates. Offered during winter session.
Prerequisite: Department chairperson's approval.

8 2103 1299
SUMMER PROGRAM INSTITUTE 1.0
 Offered cooperatively with the Town of Montclair, Recreation and Parks Department. Emphasizes program staff training, leadership training and innovative programming. Offered during summer pre-session.

8 2103 311
SPECIAL EVENTS PLANNING AND PROMOTION 2.0
 Considerations involved in production and promotion of special events that involve large and diverse publics, budgeting, special facilities and equipment, legal considerations, transportation and crowd management. Field visits required.
Prerequisite: 8 2103 225.

- 8 2103 312
BUDGET AND FINANCE IN RECREATION
AND PARKS 3.0
Study of the various sources and methods of financing, including exploration of the philosophy and mechanics of the budgetary process in recreation and park systems.
Prerequisites: 8 2103 225.
- 8 2103 322
PHILOSOPHY OF RECREATION AND LEISURE 2.0
A study and analysis of the philosophical concepts concerning recreation and leisure, including past theories, current thoughts and practices, and philosophical directions for the future of recreation and leisure services in the United States.
- 8 2103 334
RESEARCH METHODS IN RECREATION AND
LEISURE SERVICES 3.0
An introduction to the various techniques and methods used in research, the appropriate application of research methods, statistical methodology and other analytical tools for investigating problems in recreation and park professions.
- 8 2103 340
INTRODUCTION TO COMMERCIAL RECREATION
AND TOURISM 3.0
Analysis of the commercial recreation and tourism industries. Includes a study of participant profiles, types of commercial and resort enterprises, national tourism studies. Employment opportunities, trends and issues. Field visits required.
Prerequisite: 8 2103 124.
- 8 2103 342
DELIVERY OF COMMERCIAL RECREATION AND
TOURISM SERVICES 3.0
Methods and procedures for organizing and implementing commercial recreation and tourism enterprises. Includes an in-depth analysis of delivery systems, economic and marketing trends and promotion. A class research project is part of the course requirements. Field visits required.
Prerequisite: 8 2103 340.
- 8 2103 346
TOURISM AND COMMERCIAL RECREATION, PLANNING
DEVELOPMENT, AND ANALYSIS 3.0
Skills and techniques used in the planning, development, and analysis of tourism and commercial recreation facilities. Students will be required to complete a major research project.
Prerequisites: 8 2103 340, or 360 and 334.
- 8 2103 352
MARKETING TECHNIQUES IN RECREATION
AND LEISURE SERVICES 3.0
Methods and techniques of communications to interpret, motivate, promote and publicize recreation and leisure services. Human and technical procedures utilized in recreation and leisure delivery systems.
Prerequisites: 8 2103 225, 322.
- 8 2103 360
OUTDOOR RECREATION PLANNING 3.0
Survey of the planning methods and techniques utilized in outdoor recreation resource management, basic planning models, land use, legal foundations and visitor management. A class planning project is a part of the course requirements.
Prerequisite: 8 2103 124.
- 8 2103 361
IMPLEMENTATION OF OUTDOOR RECREATION
PROGRAMS 3.0
Organization and supervisory considerations in the provision of outdoor recreation programs. Emphasis on outdoor living skills, physical and mental fitness, and environmental protection. Topics include program management of outdoor areas, outdoor recreation program standards, safety and interpretation. Field visits required.
Prerequisites: 8 2103 225.
- 8 2103 365
TECHNICAL DESIGN OF RECREATION AND PARK
AREAS AND FACILITIES 3.0
The basic considerations in the functional and aesthetic components in recreation and park design. Includes the pre-design and development phases of recreation and park areas and facilities. Circulation, lighting, water systems, health and safety, and performance controls on sensitive lands analyzed. Field visits required.
Prerequisite: 8 2103 360.
- 8 2103 367
MANAGEMENT AND MAINTENANCE OF RECREATION
AND PARK AREAS AND FACILITIES 3.0
An investigation of the methods associated with the proper management and maintenance techniques of a variety of recreation and park areas and facilities. Includes park protection, vandalism, personnel training, maintenance operations, and specialized areas. Field visits required.
Prerequisite: 8 2103 360.
- 8 2103 370
THERAPEUTIC RECREATION 1.0
Introduces therapeutic recreation as a profession and a treatment modality.
- 8 2103 372
RECREATION AND REHABILITATION SERVICES 3.0
Study of roles and interrelationships of professional personnel in the rehabilitation services in medical, correctional, and community settings. The team approach to rehabilitation services will be emphasized. Field visits required.
Prerequisite: 8 2103 228.
- 8 2103 377
PROGRAMMING AND SUPERVISION IN THERAPEUTIC
RECREATION 4.0
Includes design, construction, and implementation of programs in therapeutic recreation. Includes supervision and objective evaluative procedures for programs and personnel.
Prerequisites: W 0401 241, 8 2103 228.
- 8 2103 381
COOPERATIVE EDUCATION IN RECREATION
AND PARKS 4.0-8.0
Integration of academic study with supervised employment outside the formal classroom environment. The cooperative education experience is supervised by a faculty member and an agency/organization supervisor.
Prerequisites: 8 2103 225, department chairperson's approval.
- 8 2103 390
INDEPENDENT STUDY IN RECREATION,
PARKS AND LEISURE 1.0-3.0
Independent study in area of student need and/or interest pertinent to recreation, parks and leisure. Interested students must present detailed written proposal to the department chairperson for approval and determination of credit allocation. Sophomore, junior or senior standing.
- 8 2103 430
MANAGEMENT OF RECREATION AND
LEISURE SERVICES 4.0
Managerial techniques and methods pertaining to the delivery of recreation and leisure services. Topics include leadership and problem solving skills, organizational structure, personnel management and legal issues.
Prerequisites: 8 2103 225, majors only.

8 2103 437
SENIOR SEMINAR 2.0
 Examination and analysis of student preparation for field work and entry into the recreation and park profession. Formal application and placement of field work students.
Prerequisites: Majors only, minimum 2.45 cumulative grade point average at MSC.

8 2103 489
FIELDWORK IN RECREATION AND PARKS 14.0
 Directed full-time professional supervisory experiences in an approved recreation, parks or leisure delivery system. Emphasis on individual development in program planning, conduct and evaluation, budget and finance, legal aspects, community and public relations.
Prerequisites: Majors only, 2.45 grade point average at MSC, 8 2103 437, and department chairperson's approval.

Physics and Geoscience

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES
Chairperson: Richard Hodson

The Physics-Geoscience department consists of two departments, each having its own expertise, majors, and programs within one administrative structure. The department offers separate major programs in geoscience and physics, plus teacher certification. Minors offered in either physics or geoscience are especially useful to computer science or applied mathematics majors.

Part of the Physics-Geoscience department tradition is that a professor works with classes in the laboratory. This, plus a favorable student-faculty ratio, allows personal contact between student and professor. One is free to consult professors about course material for guidance or just to exchange ideas.

All programs are designed to provide substantial well-rounded preparation for students planning to enter graduate school, research, industry, or teaching.

Students entering this department should have an exposure to biology, chemistry and physics, plus three years of college preparatory mathematics. The physics major should have four years of college preparatory mathematics.

Geoscience Major

Required Courses

	Semester Hours
1914 112 Physical Geology	4
1914 114 Historical Geology	4
1914 431 Invertebrate Paleobiology	4
1914 434 Stratigraphy	4
1914 443 Mineralogy	4
1914 444 Petrology	4

Collateral Courses

1905 120, 121 General Chemistry I, II	4 ea.
Select one of the following sequences in mathematics:	
1701 115 Precalculus Math	3

1701 116 Calculus A	4
1701 122 Calculus I	4
1701 221 Calculus II	4
Select one of the following sequences in physics:	
1902 191, 192 General Physics I, II	4 ea.
1902 193, 194 College Physics I, II	4 ea.
Recommended in addition to the above:	
0701 183 Foundations of Computer Science I	3
1701 109 Statistics	3

Electives (Departmental)

Select 14 semester hours from the appropriate list to be obtained from the department 14

Geoscience Minor

Required Courses

	Semester Hours
1914 112 Physical Geology	4
1914 114 Historical Geology	4
Select one sequence	
1914 431 Invertebrate Paleobiology	4
1914 434 Stratigraphy	4
or	
1914 443 Mineralogy	4
1914 444 Petrology	4

Electives (Departmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Physics Major

Required Courses

	Semester Hours
1902 191, 192 General Physics I, II	4 each
1902 210 Mechanics	4
1902 240 Electricity and Magnetism	4
1902 350 Optics	4
1902 460 Modern Physics	4

Collateral Courses

1905 120, 121 General Chemistry I, II	4 ea.
0701 183 Foundations of Computer Science I	3
1701 122 Calculus I	4
1701 221 Calculus II	4
1701 222 Calculus III	4
1701 420 Differential Equations	3

Electives (Departmental)

Select 14 semester hours from the appropriate list to be obtained from the department 14

Physics Minor

Required Courses

1902 191, 192 General Physics I, II	4 ea.
1902 240 Electricity and Magnetism	4
Plus either Option A or Option B:	
Option A	
1902 210 Mechanics	4
1902 Physics elective	3
Option B	
Select two	
1902 242 Circuit Theory	3
1902 245 Electronics and Digital Techniques	4
1902 247 Microprocessors and Their Applications	4

Teacher Certification

Students who successfully complete a departmental major program, the teacher certification professional sequence, one biology course (from W 0401 105, 120, 130, or 140) and Z 0834 401 (The Teaching of Science in Secondary Schools) will qualify for the Comprehensive Science Teaching Certificate. In addition, geoscience majors will qualify for the Earth Science Teaching Certificate, while physics majors will qualify for the Physical Science Teaching Certificate. Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Second Teaching Field in Geoscience

Required Courses

	Semester Hours
1914 112 Physical Geology	4
1914 114 Historical Geology	4
1914 457 Meteorology	4
1902 280 Astronomy	4
1914 360 Oceanography	3

Electives (Departmental)

Select 5 semester hours from the appropriate list to be obtained from the department 5

Second Teaching Field in Physical Science

Students majoring in a field other than physics and who wish certification in physics may take a physical science program. In addition to the certification program in their major, they must take the following:

1902 191, 192 General Physics I, II	4 ea.
Physics Elective	4
1905 120, 121 General Chemistry I, II	4 ea.
1905 230 Organic Chemistry I	3
1905 232 Experimental Organic Chemistry I	2

Courses of Instruction

Z0834 401

THE TEACHING OF SCIENCE IN SECONDARY SCHOOLS

3.0

The purposes are to review the educational objectives of science in the public schools; to consider a program of science instruction for secondary schools, including the new programs; to study aids to instruction such as texts, manuals, workbooks, tests and enrichment materials; to make a critical review of evaluation in science classes; and to investigate the various special methods of teaching applicable to science instruction.

Z0834 460

MARINE SCIENCE EDUCATION

2.0

Selected field experiences and laboratory methods utilized to develop resources from the marine environment to be used in teaching the various disciplines. Offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisite: Undergraduate science major sequence, including a 400 level oceanography course and a science methods course, or permission of instructor.

Z 1902 100

CONCEPTS IN SCIENCE

4.0

This is a one-semester course with laboratory designed for those students not majoring in science areas. This course will introduce the student to methods of science while teaching some principles of physical science and some applications of these principles. Topics discussed include, among others: energy and motion, heat energy and solar heating, sound and noise, light, lenses and fiber optics. (3 hrs. lecture, 2 hrs. laboratory)

Z 1902 105

ACOUSTICS

4.0

The physical principles of acoustics, applied to the production of music and speech, architectural acoustics, and electronic sound reproduction, at a level suitable for non-science majors. (3 hrs. lecture, 2 hrs. laboratory)

Z 1902 107

ELEMENTARY PHYSICS FOR HOME

3.0

A laboratory course developing basic principles in the construction, operation and performance of home instruments and utensils. Mechanical, electrical and optical properties of appliances. Plumbing, insulation and energy conservation.

Z 1902 191

GENERAL PHYSICS I

4.0

This one-semester calculus-based course, including laboratory, is a study of the principles of physics and some applications to society's problems. Topics covered include: mechanics, thermodynamics, fluids and harmonic motion. (3 hrs. lecture, 2 hrs. laboratory)

Prerequisite: Y 1701 122 or concurrent.

Z 1902 192

GENERAL PHYSICS II

4.0

Calculus-based course. Study of some principles of physics and some applications to society's problems. Topics include: wave motion, sound and noise pollution, optics, electricity, lasers, nuclear theory, radiation, nuclear reactors, waste disposal. (3 hrs. lecture, 2 hrs. laboratory)

Prerequisite: Y 1701 221 or concurrent.

Z 1902 193

COLLEGE PHYSICS I

4.0

This one-semester course, including laboratory, is a study of the principles and applications of classical physics. Topics covered include: mechanics, heat and thermodynamics, wave motion and sound, as well as societal applications of physical principles. Calculus is not used, but familiarity with some algebra and trigonometry is required. (3 hrs. lecture, 2 hours laboratory)

Z 1902 194

COLLEGE PHYSICS II

4.0

This one-semester course, including laboratory, is a study of the principles and applications of classical physics. Topics covered include: optics, electricity and magnetism, and an introduction to modern and nuclear physics as well as societal applications of physical principles. Calculus is not used, but familiarity with some algebra and trigonometry is required. (3 hrs. lecture, 2 hrs. laboratory)

Z 1902 210

MECHANICS

4.0

Classical mechanics: kinematics, Newton's laws, impulse and momentum, statics, work and energy, oscillations, general motion, central force motion, non-inertial frames, system of particles, methods of handling data. (3 hrs. lecture, 2 hrs. laboratory)

Prerequisites: Z 1902 191, 192, Y 1701 221 or concurrent.

Z 1902 240

ELECTRICITY AND MAGNETISM

4.0

Basic principles of electromagnetism: Coulomb's law and general techniques in electrostatics, currents and their associated magnetic field, electromagnetic induction and magnetic properties of materials. Foundations of Maxwell's equations (without detailed solutions). Laboratory experiments. (3 hrs. lecture, 2 hrs. laboratory)

Prerequisites: Z 1902 192, Y 1701 222, or concurrent.

- Z 1902 242**
CIRCUIT THEORY 3.0
 Introduces basic methods in circuit analysis and design. Topics include linear electric circuits and their response, circuit theorems, filters, fourier analysis of different inputs and outputs, and transmission lines. (2 hrs. lecture, 2 hrs. laboratory)
Prerequisites: Y 1701 221, Z 1902 192, 210 or Y 1701 420.
- Z 1902 245**
ELECTRONICS AND DIGITAL CIRCUITS 4.0
 An introduction to the principles of amplifiers, waveform generators, and digital circuits, with emphasis on the use of commonly available integrated circuit packages. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: Z 1902 240.
- Z 1902 247**
MICROPROCESSORS AND THEIR APPLICATIONS 4.0
 One semester course providing an introduction to the principles, operations and applications of microprocessors including experiment control and data manipulation. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: Z 1902 192 or 194.
- Z 1902 280**
ASTRONOMY 4.0
 Application of physical laws to the earth as a planet; nature of the other planets; orbital motion and space flight; origin of the solar system; the birth, life, and death of a star galactic structure; and cosmology. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisites: Z 1902 191, 192 or 193, 194, Y 1701 115.
- Z 1902 310**
ADVANCED MECHANICS 3.0
 Classical mechanics: transformations; oscillators; generalized motion; Lagrange's equations; Hamilton's equation; small oscillations; wave propagation. (Offered alternate years.)
Prerequisites: Y 1701 222, 420, Z 1902 210.
- Z 1902 320**
THERMODYNAMICS 3.0
 Thermodynamic systems; laws of thermodynamics; entropy; kinetic theory; transport processes; statistical thermodynamics. (Offered alternate years.)
Prerequisites: Y 1701 222, Z 1902 210 or instructor's permission.
- Z 1902 340**
ADVANCED ELECTRICITY AND MAGNETISM 3.0
 Dielectric materials, image calculations; Laplace's equation, magnetic materials and flux; A.C. networks; non-sinusoidal AC; transients and pulses; electromagnetic radiation. (Offered alternate years.)
Prerequisite: Y 1701 420 or instructor's permission.
- Z 1902 350**
OPTICS 4.0
 Propagation of light, optical components, instruments and photometry. Interference, diffraction and polarization with elements of spectroscopy. (Offered alternate years.)
Prerequisites: Y 1701 222, Z 1902 240.
- Z 1902 377**
MATHEMATICAL PHYSICS 3.0
 Vector analysis, complex variables, ordinary and partial differential equations, matrices. (Not offered every year.)
Prerequisites: 2 years of physics, Y 1701 222.
- Z 1902 460**
MODERN PHYSICS 4.0
 Special relativity, Kinetic theory of matter; quantization of electricity, light and energy; nuclear atom; elementary quantum mechanics and topics on solid state. (Offered alternate years.)
Prerequisites: Z 1902, 210, 240, Y 1701 222.
- Z 1902 462**
NUCLEAR PHYSICS 4.0
 Nuclear radiation; radioactive decay; detectors; nuclear spectroscopy and reactions; theories and models; fission, fusion, reactors; and application of radio-isotopes. (Offered alternate years.)
Prerequisites: Z 1902 210, 240, Y 1701 222.
- Z 1902 470**
SOLID STATE PHYSICS 3.0
 Properties of solid state matter are developed from the quantum mechanics of atoms and molecules. (Not offered every year.)
Prerequisites: Y 1701 222, Z 1902 460.
- Z 1914 107**
FUNDAMENTALS OF GEOSCIENCE 4.0
 An introduction to the physical characteristics of planet earth. Utilizing satellite information, aerial photographs and various types of maps and charts. This course provides background for an understanding of the basic interrelationships of the earth's atmosphere, lithosphere and hydrosphere. The human impact on earth systems is also developed and maintained in perspective.
- Z 1914 108**
PRINCIPLES OF GEOLOGY 3.0
 Geologic materials and processes. Origin and development of the earth throughout geologic time. Evolution of life as interpreted through the study of fossils. Not open to geoscience majors or to those who have taken physical geology.
- Z 1914 112**
PHYSICAL GEOLOGY 4.0
 Materials of the earth. Land forms and structure. The processes and agents responsible for their formation and modification. Modern tectonic concepts. Topographic and geologic maps. Required field trips. Not open to students who have had principles of geology. (3 hrs. lecture, 2 hrs. laboratory)
- Z 1914 114**
HISTORICAL GEOLOGY 4.0
 Geological history of the earth; the evolution of North America in terms of the changing geography, climate and plant and animal life as interpreted from the rock and fossil record. Required field trips. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: Z 1914 112.
- Z 1914 119**
THE NATIONAL PARKS AND THEIR GEOLOGY 3.0
 The national parks and monuments as regions of relatively undisturbed natural history. The minerals, fossils and rock formations which occur as well as the story of their formation. Specific parks and monuments will be studied in detail.
- Z 1914 157**
UNDERSTANDING THE WEATHER 3.0
 This course is designed to examine the earth's weather through lectures, demonstrations, observations and recording of meteorological phenomena. Major emphasis is placed on thermodynamic processes within the atmosphere as they affect primary pressure/wind patterns, synoptic meteorology, and local weather characteristics. Attention is directed toward the physical processes affecting temperature, pressure, wind, humidity, cloudiness and visibility in order to understand the main characteristics of weather. Non-majors only.
- Z 1914 221**
CONSERVATION OF NATURAL RESOURCES 3.0
 The emphasis of this course is on the imbalance of world population growth and distribution in comparison with the availability of natural resources.

- Z 1914 225**
FUNDAMENTALS OF ENVIRONMENTAL GEOSCIENCE 3.0
 The study of the relationships between man and his physical habitat. Earth resources, processes and systems and the engineering properties of natural materials insofar as they are important to or are affected by human activities. Pollution of soil, water, and air will be discussed and analyzed. Field trips will be made to appropriate areas.
Prerequisites: Z 4902 107, or 108, or Z 1914 112.
- Z 1914 250**
MAP READING AND CARTOGRAPHY 3.0
 Principles of photogrammetry and the use of aerial photographs as a significant research method to recognize and evaluate earth environments and resources. (2 hrs. lecture, 2 hrs. laboratory)
- Z 1914 251**
AERIAL PHOTOGRAPH INTERPRETATION 3.0
 Principles of photogrammetry and the use of aerial photographs as a significant research method to recognize and evaluate earth environments and resources. (2 hrs. lecture, 2 hrs. laboratory)
- Z 1914 310**
ECONOMIC GEOLOGY 3.0
 Geology and geography of non-metallic and metallic mineral resources and fuels. Problems associated with their occurrence and exploitation. Required field trips. (Not given every year.)
Prerequisites: Z 1914 112, or Z 4902 108 and one additional 2 or 3 semester hour course in geoscience.
- Z 1914 320**
CONTEMPORARY PROBLEMS IN CONSERVATION OF NATURAL RESOURCES 3.0
 Designed to focus attention on specific environmental problem areas or utilization of resources through assigned readings which provide background for open class discussion.
Prerequisite: Z 1914 220.
- Z 1914 352**
FLUVIAL GEOGRAPHY 3.0
 A detailed study of streams and rivers emphasizing processes causing variations in size and shape. The course analyzes the morphology of stream channels. The course is quantitative and stresses processes. (Also listed as N 2206 0352 Fluvial Geography.)
Prerequisites: Z 1914 107, N 2206 100.
- Z 1914 360**
OCEANOGRAPHY 3.0
 Study of the physical and chemical properties of sea water, oceanic circulation, waves and tides, and estuarine and shoreline processes.
Prerequisite: Course in similar field or instructor's permission.
- Z 1914 410**
GEOLOGY OF NEW JERSEY 3.0
 The physical features of New Jersey and their origin, geologic history, stratigraphy, paleobiology, mineralogy, structural geology, economic geology. Required field trips. (2 hrs. lecture, 2 hrs. laboratory)
Prerequisites: Z 1914 112, or Z 4902 108 and at least 8 semester hours in geology.
- Z 1914 431**
INVERTEBRATE PALEOBIOLOGY 4.0
 Invertebrate fossils—their classification, morphology, evolution, stratigraphic distribution and paleoecology. Required field trips.
Prerequisites: Z 1914 114, W 0401 130, or instructor's permission.
- Z 1914 434**
STRATIGRAPHY 4.0
 Stratigraphic principles and their application. Case studies of selected regions. Local stratigraphy interpreted through field studies.
Prerequisite: Z 1914 431, or instructor's permission.
- Z 1914 435**
GEOLOGY OF THE VERTEBRATES 4.0
 The origin, development, biogeography, paleoecology, survival or extinction, stratigraphy and morphology of selected fossil vertebrate groups. Bio-stratigraphic and paleogeographic significance of particular fossil vertebrate faunules. Requires field trips.
Prerequisite: Z 1914 114; a course in vertebrate zoology or permission of instructor.
- Z 1914 437**
SEDIMENTOLOGY 4.0
 Geological processes and agents which form, transport, deposit, consolidate and alter sediments. Interpretation of the resultant sedimentary rocks. Laboratory work on the texture, mineralogy and mass properties of sedimentary particles. Required field trips. (Not offered every year.) (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: Z 1914 112, or instructor's permission.
- Z 1914 443**
MINERALOGY 4.0
 Crystallography, internal structure, origin, occurrence, and properties of minerals; laboratory study of common minerals. Required field trips.
Prerequisites: Z 1914 112, X 1905 121.
- Z 1914 444**
PETROLOGY 4.0
 Description, identification, classification, origin and occurrence of sedimentary, igneous and metamorphic rocks. Laboratory study of the common rocks. Required field trips.
Prerequisite: Z 1914 443, or instructor's permission.
- Z 1914 455**
FUNDAMENTALS OF REMOTE SENSING OF ENVIRONMENT 3.0
 Systematic study of multiband spectral reconnaissance of the environment; multifrequency radar systems and their uses. Also listed under Environmental and Geographic studies as N 2206 455.
Prerequisite: 9 semester hours of geography or geoscience.
- Z 1914 457**
METEOROLOGY 4.0
 The characteristics of the earth's atmosphere. Meteorological instruments, principles of atmospheric physics, weather patterns and measurements of changes within the atmosphere.
Prerequisite: Introductory course in geoscience.
- Z 1914 472**
STRUCTURAL GEOLOGY 3.0
 Recognition and interpretation of primary and tectonic rock structures. Laboratory work emphasizes the analysis of faults, joints, folds and foliation. Required field trips.
Prerequisites: Geoscience major sequence including Z 1914 114, 434, 444, Y 1701 122.
- Z 1914 480**
FIELD STUDIES IN GEOSCIENCE 4.0
 Use of geologic, meteorologic and oceanographic instruments in field investigations. Interpretation of observations and writing a field report. Required field trips.
Prerequisites: Geoscience major sequence, Z 1914 472.
- Z 1914 491**
LITERATURE RESEARCH IN GEOSCIENCE 2.0
 Each participating student conducts an in-depth library research of a specific problem of his/her interest in geoscience under the guidance of a sponsoring faculty member. The results of the study will be presented in a written research-style report.
Prerequisites: At least 18 semester hours of geoscience credit beyond Z 1914 0112.

- Z 1914 492**
LABORATORY RESEARCH IN GEOSCIENCE 1.0-4.0
 Each student conducts individual laboratory research on a specific problem in geoscience under the guidance of a sponsoring faculty member. The research may be based on earlier field or library investigations. The result of the study will be presented in a written research-style report.
Prerequisites: At least 20 semester hours of geoscience credits beyond Z 1914 112, 491.
- Z 1914 494**
SELECTED TOPICS IN GEOSCIENCE 1.0-4.0
 An in-depth study of a particular topic in geoscience, the specific subject matter of which is not offered regularly in an existing course.
Prerequisite: Major sequence in geoscience to at least junior level and permission of the instructor.
- Z 1914 495**
INDEPENDENT STUDY IN GEOSCIENCE 1.0-4.0
 An opportunity for the qualified student to do library and/or laboratory investigation in a field of science of his/her choice under the guidance of a faculty member. The course is conducted exclusively by scheduled individual conferences and reports. (Offered on demand.)
Prerequisite: Geoscience major sequence or permission of the instructor.
- Z 1999 210**
INTRODUCTION TO MARINE SCIENCES 4.0
 A field-oriented lower division undergraduate course covering the principal disciplines in the marine sciences. The course is designed for the student to evaluate his/her interest in the marine science world. Offered at the site of the New Jersey Marine Sciences Consortium.
- Z 1999 481**
COASTAL MARINE GEOLOGY 4.0
 A study of the geologic processes concerned with the supralittoral, and subtidal areas of the near shore environment. Field studies will emphasize the dynamics of erosion and deposition as well as general sedimentation associated with modification of barrier beaches and other land forms of the New Jersey shoreline. Offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisite: Z 1914 437.
- Z 1999 490**
FIELD METHODS IN OCEANOGRAPHY AND MARINE BIOLOGY 4.0
 This course is intended to familiarize the student with the applications and techniques of marine samplings. The nature and role of equipment will be stressed. Field experience at the New Jersey Marine Sciences Consortium field station.
- Z 1999 498**
INDEPENDENT STUDY IN THE MARINE SCIENCES 1.0-4.0
 Individual research projects will be selected under the guidance of a professor associated with the consortium. Open only to those advanced undergraduate students who have indicated a potential for original thinking. Offered at the site of the New Jersey Marine Sciences Consortium.
- Z 4902 103**
TECHNOLOGY FOR THE LAYMAN 3.0
 Simplified description of man-made devices. Common technological terms and physical principles behind heaters, air conditioners, airplanes, telephone, radar, nuclear reactors, etc.
- Z 4902 104**
HISTORY OF SCIENCE 3.0
 The historical and philosophical development of science traced from the ancient Egyptians to the present.
- Z 4902 106**
SCIENCE AND SOCIETY 3.0
 This is a one semester course for non-science majors designed to provide a knowledge of some of the principles of physical science and to indicate how they are related to society. Formal laboratory is not included in the course. Topics discussed vary but may include such areas as: science, a human activity; man and energy; radiation and man; electricity and man; nuclear power and man; and others.
- Z 4902 108**
PRINCIPLES OF GEOLOGY 3.0
 Geologic materials and processes. Origin and development of the earth throughout geologic time. Evolution of life as interpreted through the study of fossils. Not open to geoscience majors or to those who have taken physical geology.
- Z 4902 109**
EARTH IN SPACE AND TIME 3.0
 The earth, its interactions with sun, moon and planets. Its origin, its major ecologic features and the geologic events of its past, present, and possible future.
- Z 4902 110**
NATURAL DISASTERS 3.0
 The study of natural disasters such as volcanic activity, earthquakes and hurricanes. The causes, effects and means of predicting, preventing and minimizing the effects of disasters will be discussed. The relationships between man and his sometimes hostile habitat will be included. Non-majors only.
- Z 4902 135**
DINOSAURS, THEIR LIFE AND TIMES 3.0
 The origin evolution, paleocology and extinction of the dinosaurs as reflected in the history of the Mesozoic era.
- Z 4902 147**
THE STUDY OF GEMS 3.0
 Mineralogy of gem materials through lectures, demonstrations and laboratory experience. Sources of gem materials. The cutting and polishing of gem materials. Not for major credit. (2 hrs. lecture, 2 hrs. laboratory)
- Z 4902 162**
GENERAL OCEANOGRAPHY 3.0
 A general study of the oceans and methods of modern oceanography, including the physical, chemical, geological, and biological aspects of the oceans and their interrelationship. Non-majors only.
- Z 4902 180**
DESCRIPTIVE ASTRONOMY 3.0
 A discussion of our place in the universe from ancient ideas to modern data on the moon, planets, comets, stars, galaxies and quasars. The formation and evolution of planets, stars, black holes and the universe as a whole reveal our place in time. Non-majors only.
- Z 4902 198**
ENERGY, SOCIETY AND ENERGY ALTERNATIVES RACE 3.0
 This is a non-mathematical course designed to: (1) provide a knowledge of some of the principles of science about different types of energy, (2) consider energy consumption by society, (3) examine the advantages and disadvantages of each source of energy, and (4) construct a policy for an Energy Alternatives Race. There are no science or mathematics prerequisites. Essentially the course consists of lecture-demonstration, discussions, and reports. Winter session only.

Z4902 199

THE SCIENCE IN SCIENCE FICTION

3.0

An exploration for the general student of some of the scientific and mathematical principles which underlie the speculative fiction of this century. Topics to be considered include astronomy, causality, chemistry, cosmology, computers, entropy, genetics, relativity and modern mathematics.

Z4902 222

NEW JERSEY ENVIRONMENT: PROBLEMS AND ISSUES

3.0

Designed to focus attention on the physical characteristics of New Jersey in order to appreciate and understand the problems encountered in issues involved in management and protection of the natural environment. The significance of location, characteristics and landforms, climate weather patterns, soil and vegetation will be examined together with the human impact on the landscape.

Z4902 320

SCIENTIFIC PHOTOGRAPHY

2.0

Field and laboratory application of photographic techniques for use in preparing scientific reports as well as for personal study. Includes macrophotography, microphotography, micrography and electron micrography. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisites: 12 semester hours of science and one course in introductory photography, or equivalent experience.

Z4902 322

CONSUMER SCIENCE

3.0

Basic scientific principles in testing and evaluating consumer products. Field trips to local cooperating industries and testing agencies to evaluate processes and products.

Prerequisite: Junior or senior standing.



Political Science

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: George T. Menake

Political Science is a branch of the social sciences concerned with the theory and practice of government and politics. There are four areas of interest a student may pursue: Political Thought and Philosophy, American Politics, Comparative Politics and International Politics.

The department also provides a Public Administration minor in order to give those seeking employment in state or local government the necessary background. It is open to all students.

Graduates in the political science major receive a Bachelor of Arts degree.

Political Science Major

Required Courses

	Semester Hours
2207 102 Institutions of American Government	3
2207 103 The American Political Process	3
2207 201 Comparative Politics	3
2207 202 International Relations	3
2207 300 Scope and Theories in Political Science	3
2207 408 Development of Political Thought to Machiavelli	3

Electives (Departmental)

Select 15 semester hours from the appropriate list to be obtained from the department

Political Science Minor

This program is open to all students with any major. It requires 18 semester hours from the political science major both required and elective courses. See the department staff for details.

Public Administration Minor

Required Courses

	Semester Hours
2207 102 Institutions of American Government	3
2207 305 Introduction to Public Administration	3

Electives (Departmental)

Select 12 semester hours from the appropriate list to be obtained from the department

Courses of Instruction

- S 2207 102
INSTITUTIONS OF AMERICAN GOVERNMENT 3.0
The fundamentals of the U.S. constitution, congress, the presidency and the courts. Their operations and interactions.
Prerequisite or corequisite for Paralegal minors.
- S 2207 103
THE AMERICAN POLITICAL PROCESS 3.0
Essential elements of American political life such as parties, pressure groups, public opinion and foreign affairs as they relate to the dynamics of the policy process.
- S 2207 200
INTRODUCTION TO POLITICS 3.0
Government and politics in the contemporary world with particular reference to American politics and institutions. Not for political science majors.
- S 2207 201
COMPARATIVE POLITICS 3.0
Constitutional principles, governmental institutions and political processes of selected contemporary states with emphasis on major European governments.
- S 2207 202
INTERNATIONAL RELATIONS 3.0
Recent and contemporary world politics and the foreign relations and policies of selected states.
- S 2207 203
INTERNATIONAL ORGANIZATIONS 3.0
Political and administrative institutions of international government with emphasis upon the United Nations and selected regional organizations.
- S 2207 214
WOMEN IN POLITICS 3.0
The role of women in the functioning of the American political system.
- S 2207 300
SCOPE AND THEORIES IN POLITICAL SCIENCE 3.0
The development of the discipline of political science basic concepts and research trends. The behavioral movement and post-behavioral reactions.
Prerequisites: S 2207 102, 103.
- S 2207 301
AMERICAN PARTY SYSTEM 3.0
Organization, function and practice of political parties in the U.S. Campaign functions, membership problems, political finance and policy formation practices.
Prerequisite: S 2207 102, or 103, or 200 or permission of instructor.
- S 2207 302
PUBLIC OPINION AND PRESSURE GROUPS 3.0
The nature and development of public opinion and pressure groups in the United States and their influence on public policy and political process.
Prerequisite: S 2207 102, or 103, or 200, or permission of instructor.
- S 2207 303
POLITICS OF DEVELOPMENT AND MODERNIZATION 3.0
The major contemporary schools of political modernization and development theory. Interrelationship among political, social and economic variables.
- S 2207 304
STATE AND LOCAL GOVERNMENT 3.0
State political systems, including their administrative and local sub-systems. Federal-state and inter-state relations. The political institutions of New Jersey.
Prerequisite: S 2207 102, or 103, or 200, or permission of instructor.
- S 2207 305
INTRODUCTION TO PUBLIC ADMINISTRATION 3.0
Literature and developments in the field of public administration. The federal bureaucracy in the policy-making process.
Prerequisites: S 2207 102, or 103, or 200, or permission of instructor.
- S 2207 306
CAMPAIGN POLITICS 3.0
This course is taught in election years and provides the student with field experience at the local precinct or party level.
Prerequisite: S 2207 102, or 103, or 200.
- S 2207 307
AMERICAN POLITICAL THOUGHT 3.0
The development of American ideas covering political authority from Hamilton, Madison and Marshall to the present.
Prerequisite: S 2207 102, or 103, or 200, or permission of instructor.
- S 2207 308
ETHNIC POLITICS IN AMERICA 3.0
The political behavior of American ethnic groups from the puritans to the Puerto Ricans.
Prerequisite: S 2207 102, or 103, or 200, or permission of instructor.
- S 2207 309
URBAN POLITICS 3.0
The policies, processes, interrelationships and organization of governments in heavily-populated areas.
- S 2207 310
PUBLIC PERSONNEL ADMINISTRATION 3.0
The problems and processes in the U.S. of public personnel administration at the state and local level.
Prerequisite: S 2207 102, 305, or instructor's permission.
- S 2207 311
GOVERNMENTAL BUDGETING 3.0
The Budgetary process in governmental agencies from the perspective of political demands and influences.
Prerequisite: S 2207 102, 305.
- S 2207 315
URBAN ADMINISTRATION 3.0
Problems and policy-making in the larger urban or metropolitan complexes.
Prerequisite: S 2207 102, 305, or instructor's permission.
- S 2207 316
CONTEMPORARY WESTERN EUROPEAN POLITICS 3.0
Government and politics of Great Britain, France, West Germany and Italy. Institutions, parties, ideologies and interest groups.
- S 2207 320
LAW IN SOCIETY: CIVIL LAW 3.0
This course will examine the American civil legal system as it affects a variety of our social institutions.
- S 2207 321
LAW IN SOCIETY: CRIMINAL LAW 3.0
To introduce the student to institutions, processes, and social functions of criminal law

S 2207 322
AMERICAN CONSTITUTIONAL LAW: THE FEDERAL SYSTEM 3.0
 Interpretation of supreme court decisions in the areas of the distribution of power within the national government and between the national government and the states.

S 2207 323
AMERICAN CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES 3.0
 The development of the constitution and the supreme court of the United States illustrated through reference to court opinions in civil rights and liberties.

S 2207 402
GOVERNMENT AND POLITICS OF AFRICA 3.0
 Governmental and political development, organization and practices in sub-Saharan Africa.

S 2207 403
GOVERNMENT AND POLITICS OF CHINA-JAPAN 3.0
 The government and politics of Japan. China and Korea in the contemporary world.

S 2207 404
GOVERNMENT AND POLITICS OF INDIA AND SOUTH ASIA 3.0
 The political experiences and institutions of the Indian subcontinent since 1947. The Republic of India, Pakistan, Ceylon and Bangladesh.

S 2207 405
GOVERNMENT AND POLITICS OF LATIN-AMERICA 3.0
 Governmental and political development, organization and practices in the states of Middle America and South America.

S 2207 406
GOVERNMENT AND POLITICS OF THE MIDDLE EAST 3.0
 Government and politics in the Arab states, Turkey, Israel and Iran.

S 2207 407
GOVERNMENT AND POLITICS OF U.S.S.R. 3.0
 The political and institutional organizations of the Soviet Union. Contemporary political issues, party and governmental structures.

S 2207 408
DEVELOPMENT OF POLITICAL THOUGHT TO MACHIAVELLI 3.0
 Selected major political philosophies from Plato and Aristotle through to Machiavelli.

S 2207 409
MODERN POLITICAL THOUGHT 3.0
 Selected political philosophers from Machiavelli to the present.

S 2207 410
DIRECTED STUDY 3-6.0
 Juniors and seniors may elect three to six credits of independent study under the direction of a member of the Political Science staff.

S 2207 411
THE POLITICS OF RACE 3.0
 Black participation in the American political system from the colonial period to the present.

S 2207 412
GOVERNMENT AND POLITICS OF COMMUNIST EAST EUROPE 3.0
 The political and governmental organizations of the communist countries of eastern and central Europe (exclusive of the U.S.S.R.). Institutions, practices and ideologies including inter-regional relations.

S 2207 413
AFRO-ASIAN FOREIGN POLICIES 3.0
 The course will examine the position and role of new African and Asian nations in international politics in the post-World War II era.
Prerequisite: S 2207 303 or instructor's permission.

S 2207 416
SELECTED TOPICS IN POLITICAL SCIENCE 3.0
 This course allows the instructor to select a political problem which is either not covered in the curriculum or which deserves more in-depth treatment that is possible in a regular course.

S 2207 420
SEMINAR AND INTERNSHIP IN POLITICAL SCIENCE 4.0
 In this course students will work as interns for one semester in the office of a N.J. state legislator, U.S. congressperson or senator, or state or federal executive.

S 2207 425
POLITICS OF FEDERAL BUREAUCRACY 3.0
 In-depth examination of the federal bureaucracy in relationship with national, state and local agencies.
Prerequisite: S 2207 102.

S 2207 426
SEMINAR AND INTERNSHIP IN PUBLIC ADMINISTRATION 5.0
 A one semester public administration field experience in local government. Application must be made directly to the instructor in preceding semester.
Prerequisite: Instructor's permission.

S 2207 427
SEMINAR AND INTERNSHIP IN PUBLIC ADMINISTRATION II 4.0
 A one semester public administration field experience in local government. Application must be made directly to the instructor in preceding semester.
Prerequisite: Instructor's permission.

S 2207 430
INTERNATIONAL LAW 3.0
 The nature and place of international law in the conduct of international relations.



Psychology

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Roland Siiter

Undergraduate courses in psychology establish a sound basis for later professional or graduate training in psychology. As part of a broad liberal education, they satisfy the needs of students, majors and non-majors, and teach principles and techniques as intellectual tools for work in other social and biological sciences and in professional fields such as social work, journalism, business and law. Courses required for teacher certification in the State of New Jersey, as described in the Teacher Education program, are provided.

In addition to a diverse general psychology program, the department offers a Community Psychology concentration and an Honors Seminar Program, as well as minors in Psychology and Community Psychology.

Psychology Major

Required Courses

	Semester Hours
2001 101 General Psychology I: Growth and Development	3
2001 203 General Psychology II: An Experimental Approach	3
2001 220 Quantitative Methods in Psychology	3
2001 301 Experimental Psychology	4

Electives (Departmental)

Select 21 semester hours from the appropriate list to be obtained from the department 21

Concentration Programs Within the Major

Community Psychology

Required Courses

	Semester Hours
2001 101 General Psychology I: Growth and Development	3
2001 203 General Psychology II: An Experimental Approach	3
2001 220 Quantitative Methods in Psychology	3

Specialization

2099 245 Introduction to Community Psychology	3
2099 290 Advanced Community Psychology	3
2099 387 Methods in Evaluation Research	4
2099 391 Cooperative Education in Psychology	3

Electives (Departmental)

	Semester Hours
2001 201 Child Psychology	3
2001 202 Adolescent Psychology	3
2001 225 Psychology of Adjustment	3
2001 227 Psychological Aspects of Human Sexuality	3
2001 230 Environmental Psychology	3
2001 231 Psychology of Aggression	3
2001 260 Social Psychology	3
2001 265 Psychology of Women	3
2001 268 Psychological Aspects of Aging	3
2001 235 Psychology of Exceptional Children and Youth	3
2001 305 Physiological Psychology	3
2001 310 Introduction to Psychological Testing	3
2001 332 Psychological Foundations of Personality	3
2001 341 Psychological Aspects of Consumer Behavior	3
2001 365 Abnormal Psychology	3
2001 470 Children's Rights and Child Advocacy	3

Electives (Interdepartmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Note: The community psychology concentration requires 31 semester hours of course work and 9 semester hours of applied experience. Check with the department for details.

Community Psychology Minor

Required Courses

	Semester Hours
2001 101 General Psychology I: Growth and Development	3
2099 245 Introduction to Community Psychology	3
2099 290 Advanced Community Psychology	3

Electives (Departmental)

2001 225 Psychology of Adjustment	3
2001 227 Psychological Aspects of Human Sexuality	3
2001 230 Environmental Psychology	3
2001 231 Psychology of Aggression	3
2001 265 Psychology of Women	3
2001 260 Social Psychology	3
2001 341 Psychological Aspects of Consumer Behavior	3
2001 405 Psychological Anthropology	3
2001 491, 492 Independent Study I, II	1-3

Electives (Interdepartmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Note: The community psychology minor requires 21 semester hours of course work. Check with the department for details.

General Psychology Minor

Required Courses

2001 101 General Psychology I: Growth and Development	3
2001 203 General Psychology II: An Experimental Approach	3

Electives (Departmental-300 level or above)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Electives (Departmental-general)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Teacher Certification (Social Sciences)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Departmental course requirements include 27 semester hours of social science courses. Consult with an advisor for further information.

Teaching of Psychology Certification Endorsement

This endorsement is necessary for teaching psychology in elementary and secondary schools. The requirements are as follows:

A bachelor's degree based upon a four-year program in an accredited college.

A regular New Jersey teaching certificate.

Completion of 24 semester hours in Psychology including work in each of the following areas:

- Developmental Psychology
- Mental Health
- Personality or Social Psychology
- Experimental Psychology
- Psychological Measurement

Check with the department for appropriate courses.

Courses of Instruction

T 2001 100
RE-ENTRY SEMINAR 2.0
Provides academic, career, and personal counseling during first semester adjustment period, group identification and support while developing renewed skills and ego strength. Offered only on a pass/fail basis.

T 2001 101
GENERAL PSYCHOLOGY I: GROWTH AND DEVELOPMENT 3.0
Psychology as an applied behavioral science. Human development, conflict and adjustment, social behavior, group processes, individual differences, personality theory and assessment, behavior disorders, and principles of conditioning, learning and forgetting.

T 2001 102
WOMAN'S WORLDS 3.0
This course introduces the general student to the broad and interdisciplinary field known as women's studies. It is designed to make students aware of the new discoveries in feminist research and to focus on many aspects of the female experience. The course is designed to help students understand different methodologies in diverse disciplines and to treat areas such as literature, history, psychology, and the arts through a thematic approach.

T 2001 103
FRESHMAN SEMINAR 3.0
Major objective is to better acclimate the beginning college student (freshman and transfers) to campus life through an emphasis on affective education and group interaction. Values clarification and self identity are important course components.

T 2001 105
PSYCHOLOGICAL STUDY OF SOCIAL ISSUES 3.0
This course surveys the broad range of social problems which may be illuminated by psychological analysis. It is designed to demonstrate at an introductory level the methods by which psychologists gather evidence about social issues. It will focus on techniques that can be used beyond the laboratory and show the relationship between theoretical perspectives and applications to real-life.

T 2001 109
THE HUMAN ENVIRONMENT 3.0
Interdisciplinary with geography. People's modification and understanding of the environment. Future human and environmental projections.

T 2001 200
EDUCATIONAL PSYCHOLOGY 3.0
Required for teaching. Child and adolescent development. Fundamentals of learning theory as applied to classroom situations, learning inhibition and academic non-achievement, personal-social adjustment, measuring and evaluating, teaching-learning, creativity.
Prerequisite: T 2001 101.

T 2001 201
CHILD PSYCHOLOGY 3.0
Growth, development and behavior of children. Physical, intellectual, social and emotional development and their interaction. Scientific method exemplified through the literature and intensive study of individual children.
Prerequisite: T 2001 101.

T 2001 202
ADOLESCENT PSYCHOLOGY 3.0
Biological, psychological and social factors that shape the transition from childhood to adulthood. Normal and deviant patterns of development in morals, intellect, emotions and judgment. Problems of adolescents with practical application to oneself and others.
Prerequisite: T 2001 101.

T 2001 203
GENERAL PSYCHOLOGY II: AN EXPERIMENTAL APPROACH 3.0
Emphasis on psychology as an experimental and research oriented science. Topics under investigation include experimental design, psychological measurement, physiology, perception, sensory processes, motivation, emotional behavior, and advanced topics in psychological learning theory.
Prerequisite: T 2001 101.

T 2001 220
QUANTITATIVE METHODS IN PSYCHOLOGY 3.0
Descriptive statistics and introduction to statistical inference. Emphasis on practical application of statistical tools in testing and research. Topics include logic of statistics, organization and presentation of statistical data, measures of central tendency, variability, and relative position. Probability and the normal curve, measures of correlation, parametric and non-parametric tests of significance.
Prerequisite: T 2001 101.

T 2001 225
PSYCHOLOGY OF ADJUSTMENT 3.0
Individual and social adjustment. Typical varieties of adjustive behavior illustrated by practical examples. Factors which facilitate or impede man's adaptation to life situations such as work, marriage, disability, etc.
Prerequisite: T 2001 101.

T 2001 227
PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY 3.0
Behavior and attitudes influenced by basic sexuality widens perspectives to aid in decision making. Developmental periods and sexual relationships. Connections between psychological theory and sexual mores; genetic understandings.
Prerequisite: T 2001 101.

- T 2001 230**
ENVIRONMENTAL PSYCHOLOGY 3.0
 The influence of the physical environment on the behavior of organisms. Population growth and regulation. Crowding, sensory experience, enrichment and deprivation. Motivational force of environmental stimulation. Adaptation to environment as a function of prolonged exposure, salutary effects of aesthetically pleasing stimulation.
Prerequisites: T 2001 101.
- T 2001 231**
PSYCHOLOGY OF AGGRESSION 3.0
 The root causes of violence in America will be examined through case studies, (the protest-movement of the 1960's, sexual and physical abuse, violent-criminal activity, etc.) and familiarization with biochemical, psychological and socio-cultural research into causes and effects of aggression and violence.
Prerequisite: T 2001 101.
- T 2001 235**
PSYCHOLOGY OF EXCEPTIONAL CHILDREN AND YOUTH 3.0
 Surveys, current practices and problems of exceptional children and youth. Explores the unique needs of individuals with handicaps that involve intellectual, sensory, motor, neurological, social and emotional origins. Utilizes analysis of case materials for theoretical and practical applications to the psychology of exceptionality.
Prerequisite: T 2001 101.
- T 2001 240**
INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 3.0
 Application of psychological principles and practices in business and industry. Problems of communication, group dynamics, man-machine relations, employee attitudes, accident prevention, industrial job selection techniques, motivation, executive leadership. Commonly used selection tests will be evaluated.
Prerequisite: T 2001 101.
- T 2001 243**
PSYCHOLOGY OF PAN AFRICAN NOVELS 3.0
 A role-reciprocal analysis of intrapsychic cognitive and psychosocial themes dealing with the effects of colonialism and slavery, as well as efforts towards nation-building and the search for self-determination.
Prerequisites: Six credits in psychology or English literature.
- T 2001 248**
PSYCHOLOGY AND LAW 3.0
 Law and psychology share a common focus: the understanding, prediction and regulation of human behavior. Despite this commonality of interest, different emphasis on these elements and a different mandate have frequently hindered active communication and collaboration between the disciplines. The purpose of this course is to present the common ground of law and psychology, and show how they contribute to each other.
Prerequisites: T 2001 101.
- T 2001 260**
SOCIAL PSYCHOLOGY 3.0
 Focus on social behavior of the individual and the group, social perception, motivation, and learning. Attitudes and values. Development and dynamics of social groups. Inter-group tension and prejudice. Mass phenomena. Psychological approaches to social issues.
Prerequisites: T 2001 101.
- T 2001 265**
PSYCHOLOGY OF WOMEN 3.0
 The course will investigate contemporary issues in the psychology of women (an opportunity for original research will be provided). Theoretical positions and recent research in the area will be examined.
Prerequisite: Six semester hours in psychology.
- T 2001 268**
PSYCHOLOGICAL ASPECTS OF AGING 3.0
 Overview of later maturity and aging. Emphasis on psychological, physiological and sociological aspects. Aging and the cognitive process. Mental health, death, adjustment problems, needs, issues.
Prerequisite: T 2001 101.
- T 2001 273**
PSYCHOLOGY AND LITERATURE 3.0
 Terminology and techniques of modern depth psychologies – Freudian, Jungian, Adlerian – to illuminate the literary portrayal of human character in masterpieces of world literature. Study organized into themes such as the quest for selfhood, the alienated individual, love and marriage, parents and children.
Prerequisite: Six semester hours in psychology or English.
- T 2001 301**
EXPERIMENTAL PSYCHOLOGY 4.0
 Introduction to laboratory methods of research in areas such as motivation, perception and learning. Emphasis is on design and execution of exploratory investigations. (3 hours lecture, 3 hours laboratory.)
Prerequisite: T 2001 220.
- T 2001 305**
PHYSIOLOGICAL PSYCHOLOGY 3.0
 Anatomical, neural and biochemical bases of behavior are studied. Topics include localization of function, neuro-hormonal interaction, sensory and motor functioning, emotions, the relationship of neurophysiological processes and personality.
Prerequisite: T 2001 203 or instructor's permission.
- T 2001 308**
PERCEPTION 3.0
 The theory and procedure of perceptual research. Theoretical approaches reviewed; modern psychophysical and perceptual research. Traditional problems of perception, constancies of size and color brightness.
Prerequisite: T 2001 203 or instructor's permission.
- T 2001 310**
INTRODUCTION TO PSYCHOLOGICAL TESTING 3.0
 Tests of intelligence, aptitude, achievement and personality. Principles of psychological testing. Approaches to test construction.
Prerequisite: T 2001 220.
- T 2001 332**
PSYCHOLOGICAL FOUNDATIONS OF PERSONALITY 3.0
 Current approaches and theories of personality development and organization.
Prerequisite: T 2001 203.
- T 2001 340**
HUMAN LEARNING AND MEMORY 3.0
 Research, language and methods of learning theory. Classical and operant conditioning, complex habits, remembering and forgetting, transfer of training, cognition and behavior modification. Review of animal research but primary emphasis is on man.
Prerequisite: T 2001 203 or instructor's permission.
- T 2001 341**
PSYCHOLOGICAL ASPECTS OF CONSUMER BEHAVIOR 3.0
 Applications of the science of psychology to consumerism, consumer protection, questionnaire construction and opinion surveys, marketing and advertising.
Prerequisite: T 2001 220.

T 2001 345
MENTAL HEALTH ISSUES OF HISPANIC AMERICANS 3.0
 A lecture-type course focusing on the personal, social, institutional and cultural forces that affect the mental health of Americans of Spanish descent. The course will cover issues such as the measurement of psychological functions, bilingualism, personal values and belief systems, the dynamics of the family and acculturation. A midterm and a final exam as well as a research paper will be required from students.

T 2001 348
PSYCHOLINGUISTICS 3.0
 The study of language through linguistic, behavioral, and cognitive methods. Basic linguistic ideas used for the explications of problems in grammar, cognitive structure, meaning, and speech production and comprehension.
Prerequisite: T 2001 203 or instructor's permission.

T 2001 353
COMPARATIVE PSYCHOLOGY 3.0
 The student will explore experimental and field studies of behavior in a few selected animal species with particular reference to the behavior of vertebrates. The program will involve detailed study of instinctive behavior and imprinting, respondent and operant behavior with emphasis upon the procedures and variables concerned with the acquisition of new forms of behavior.
Prerequisite: T 2001 203 or instructor's permission.

T 2001 355
MOTIVATION 3.0
 The concepts of instincts, homeostasis, drive, reinforcement, arousal and inception are analyzed with reference to data drawn from many areas of experimentation. Primary emphasis on the experimental, rather than the theoretical literature. Motivational concepts relevant to human and animal research.
Prerequisites: T 2001 203 and 6 additional hours in psychology.

T 2001 358
FUNDAMENTALS OF CONDITIONING AND LEARNING 3.0
 Major theoretical problems and theories of learning are considered. Includes experimental analysis of basic phenomena of conditioning and learning, studied primarily through experimental studies of infra-human organisms. Students may study selected topics more extensively.
Prerequisite: T 2001 203 or instructor's permission.

T 2001 360
HISTORY AND SYSTEMS OF PSYCHOLOGY 3.0
 Historical developments of psychology. Comparative analysis of the major schools of contemporary psychology. New trends and movements in psychological theory.
Prerequisite: T 2001 203 and 6 additional hours in psychology.

T 2001 365
ABNORMAL PSYCHOLOGY 3.0
 Overview of psychopathological processes. Neuroses, psychoses, and characterological disorders. Feeling, thinking and behavioral aspects during the life span. Diagnostic and treatment procedures.
Prerequisite: T 2001 203, 225 or 332.

T 2001 400
SEMINAR IN PSYCHOLOGY 3.0
 Intensive study on topics related to student and instructor interest. Forum for instructor specialization and small group interaction. Advanced students only.

T 2001 402
SOCIAL ROLE OF PSYCHOTHERAPIES 3.0
 The effects of various psychotherapies upon society, social institutions and social relationships. Impact of classical Freudian therapy, behaviorism, group and encounter movements. Cross-listed with sociology. (Also listed under Sociology as U 2208 402.)
Prerequisites: Two courses in psychology.

T 2001 405
PSYCHOLOGICAL ANTHROPOLOGY 3.0
 Transcultural focus on the interrelated nature of culture and human behavior. Team-taught interdisciplinary course with emphasis on mutual dependencies of psychological and anthropological theory and method. Student work with bi-cultural informants.
Prerequisites: T 2001 101, J 2202 100.

T 2001 420
PACKAGED COMPUTER PROGRAMS FOR PSYCHOLOGY 1.0
 An introduction to the use of statistical packages in the computer for the purpose of doing extensive statistical and analyses of data. One such package will be reviewed thoroughly among datestat, SPSS, SAS, bio-med. Principles of coding and keypunching will also be presented.

T 2001 459
SPECIAL TOPICS IN PSYCHOLOGY 3.0
 In-depth view of important theoretical and methodological issues in a specific area of psychology. The area to be covered is chosen by the instructor. The course permits the instructor and students to examine psychological issues which are either not covered in the curriculum or which deserve more in-depth treatment than is possible in a regular course. The course may be taken no more than twice as part of major or minor degree requirements in psychology.

T 2001 463
PSYCHOLOGICAL FOUNDATIONS OF MUSIC I 2.0
 Interrelations of physical and psychological aspects of music. Perception of music, experimental aesthetics, measurement and diagnosis of musical ability. Research methods in the study of musical phenomena. Independent research.
Prerequisites: T 2001 101, instructor's permission.

T 2001 464
PSYCHOLOGICAL FOUNDATIONS OF MUSIC II 2.0
 Continuation of T 2001 463.
Prerequisites: T 2001 101, instructor's permission.

T 2001 465
PROBLEMS OF PERFORMANCE 3.0
 Development of techniques needed for success in public appearances involving music, theatre, speech, etc. Resolving such problems as stage fright, memory loss, performance anxiety. Attaining self-understanding and confidence using techniques of Havas, Berne, Horrigol, Weekes, Alexander, others. Guest performers. Open to all majors. (Also listed under music as H 1004 465.)

T 2001 470
CHILDREN'S RIGHTS AND CHILD ADVOCACY 3.0
 The review and evaluation of the rights, privileges, and responsibilities of young citizens (preschool through adolescence). The process and goals of advocacy. The community services available to and lacking for the optimum development to maturity of young citizens. Psychology, education, sociology, mental health, law enforcement, medicine are domains of study and investigation.
Prerequisite: Junior standing and instructor's permission.

T 2001 491
INDEPENDENT STUDY I 3.0
 Individual project under supervision of a professor in the department.
Prerequisite: Instructor's permission.

T 2001 492
INDEPENDENT STUDY II 3.0
 Individual project under supervision of a professor in the department.
Prerequisite: Instructor's permission.

T 2099 245
INTRODUCTION TO COMMUNITY PSYCHOLOGY 3.0
 Integration of social psychology with mental health in the resolution of problems in the community. Social psychological theories and empirical strategies used to study the dynamics of power, membership, change and deviance. Accent also on comprehensive mental health center and roles of community psychologist.
Prerequisites: T 2001 101, majors only.

T 2099 290
ADVANCED COMMUNITY PSYCHOLOGY 3.0
 Supervision is provided in a variety of community action programs which have preventative as well as treatment goals. Day and hour assignments can usually be arranged, but effective study participation will require a 3 hour block of time in order to serve directly in a community setting.
Prerequisites: T 2001 101, T 2099 245 or instructor's permission.

T 2099 387
METHODS IN EVALUATION RESEARCH 4.0
 This course focuses on the application of psychological research methods and knowledge to the evaluation of the effectiveness or ineffectiveness of community programs. Emphasis will be on techniques for program planning and for constructive innovations in community settings.
Prerequisites: T 2001 220, majors only, T 2099 245, instructor's permission, T 2099 290, work in field.

T 2099 391
COOPERATIVE EDUCATION IN PSYCHOLOGY 9.0
 The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The co-op term is a semester off campus, during which a student is supervised by a faculty coordinator and the office of cooperative education, and is responsible for completing the terms of a learning contract.
Prerequisite: Junior status.



Sociology

**SCHOOL OF HUMANITIES AND
 SOCIAL SCIENCES**
Chairperson: Jay Livingston

Sociologists deal with varied questions about the social world and the lives of individuals within it. Some areas of concern may be: the way wealth and power affect society, major characteristics of contemporary family life, how individuals organize and influence their everyday social world. Taking sociology courses ensures that the student learns to confront these and other issues.

There are four areas of specialization: sociological, interdisciplinary, preprofessional, and applications of sociology and social action. Students should choose one that fits their interests and goals. A departmental advisor is available to help in the choice.

The sociology major provides the groundwork for fields such as teaching, crime prevention, social work, or law.

The sociology department offers a Bachelor of Arts degree.

Sociology Major

Required Courses

	Semester Hours
General: 2208 100 The Sociological Perspective	3
Theory	
Select one	
2208 312 Sociological Theory: Heuristic Approach	3
2208 313 Sociological Theory: Critical Analysis	3
2208 411 Selected Topics in Sociological Theory	3
Methodology	
Select one	
2208 301 Sociological Research Method I	3
2208 412 Selected Topics in Sociological Research Methods	3
Advanced Course: 300 or 400 level course with appropriate approval	3
Action Course:	
Select one	
2208 300 Externship in Sociology	3
2208 333 Community Organization in the Arts	3
2208 410 Social Action Practicum	3
2208 414 Selected Topics in Applied Sociology	3

Electives (Departmental)

Select 21 semester hours from the appropriate list to be obtained from the department 21

Note: It is important to try to meet the theory and method requirements during the junior year. These courses will prepare students for the work done in advanced courses. Students who are planning to go to graduate school or who intend to do sociological research should take statistics.

Applied Sociology Minor

EMPHASIS ON HELPING PROFESSIONS AND INSTITUTIONS

As part of its Applied Sociology program, the department has an emphasis on helping professions and institutions. It is open to students in all majors who are interested in pursuing careers in the human service field.

Required Courses

	Semester Hours
2208 336 The Sociology of Helping Professions and Institutions	3
2208 337 Methods and Techniques in the Helping Professions	3
2208 300 Externship in Sociology (Supervised Field Work) <i>or</i>	3
2208 410 Social Action Practicum (Supervised Field Work)	3

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Applied Sociology Minor

EMPHASIS ON WORK AND INDUSTRY

The Sociology department's applied sociology minor includes a program on work and industry. This minor is open to students in all majors who are interested in applying sociological understanding to the areas of labor relations, professions, industrial and other work settings.

Required Courses

	Semester Hours
2208 304 Sociology of Work and Professions	3
2208 300 Externship in Sociology, <i>or</i>	3
2208 410 Social Action Practicum	3
2208 414 Selected Topics in Applied Sociology	3

Electives

Select 9 semester hours from the appropriate list to be obtained from the department 9

Note: It is possible to have further field experience by doing a project of your choice and taking 2208 310 Directed Independent Research as an elective.

Courses of Instruction

U 2208 100
THE SOCIOLOGICAL PERSPECTIVE 3.0
A systematic introduction to various sociological explanations of human behavior and social structures and processes.

U 2208 101
CRIMINOLOGY 3.0
Crime, the administration of criminal justice and criminal rehabilitation in American society. Cause and effect relationships in criminal deviancy, use of law in social control, and police and minority group relations.

U 2208 112
SOCIOLOGY OF LEISURE 3.0
Leisure as a social problem; work and leisure; the use of leisure time in modern society.

U 2208 113
SOCIAL PROBLEMS 3.0
How social structure and dominant social institutions are related to problems of great concern to people; various approaches to the study of social problems; the implications of each.

U 2208 200
SOCIOLOGY OF EDUCATION 3.0
The entire socialization process; the school as an institution in the process of social change. Distinguishing the concept of education from the institutional confines of the school; the implications of traditionally sacrosanct roles and statutes inherent to education. (Not to be used for teacher certification.)

U 2208 202
RACIAL AND ETHNIC RELATIONS 3.0
The social meaning of race and ethnicity. The social, psychological and structural sources of racism; the consequences of this phenomenon to groups; situation and comparative data.

U 2208 203
SOCIOLOGY OF ORGANIZED CRIME 3.0
Organized crime as a sociological phenomenon. The methods and goals of large-scale crime and its economic, political and social costs; popular attitudes towards organized crime; efforts of enforcement and investigation agencies to deal with the problem.

U 2208 204
SOCIOLOGY OF THE FAMILY 3.0
The family from a comparative and historical perspective; the structure and role of the family in contemporary society.

U 2208 205
BLACK FAMILY 3.0
The black family in American society; historical perspectives and contemporary conflicts surrounding the black family.

U 2208 206
INDIVIDUAL AND SOCIETY 3.0
Man as a biological, psychological and social being; the socialization process and its effect on the individual; the structure and function of groups.

U 2208 207
SOCIAL STRUCTURE OF AMERICAN SOCIETY 3.0
Empirical materials on social structure; inter-institutional relations as the form of the broad, general structure of American society.

U 2208 209
SOCIOLOGY OF POVERTY AND WELFARE 3.0
Poverty and welfare institutions as social phenomena. The meaning of poverty; Absolute and relative deprivation. The functions of social welfare institutions.

U 2208 210
STATISTICS FOR SOCIAL RESEARCH 3.0
The use of descriptive summary and comparative techniques. Tools for the analysis of relationships in data generated in research, or for the evaluation of published research. (Recommended in preparation for the course in research methods.)

- U 2208 211
SOCIOLOGY OF HEALTH AND ILLNESS 3.0
Social conceptions of physical and mental health and illness; the social role of the "sick"; comparative medical beliefs and practices in American society; medical institutions and care; medical personnel and professional ideologies; the relationship between social stratification and health and illness.
- U 2208 212
SOCIOLOGY OF SOCIAL AND TECHNICAL CHANGE 3.0
The statics and dynamics of modern societies; Institutional development and maintenance; Possibilities for reform and revolutionary movements.
- U 2208 214
SOCIOLOGY OF VIOLENCE AND CONFLICT 3.0
The social sources of violence and conflict; The sociological approach contrasted with biological and psychological ones; Interpersonal and institutionalized violence and conflict; The relationship between conflict and violence, war, crime, class conflict, and ethnic and racial hostilities.
- U 2208 216
SOCIOLOGY OF FOOD AND POPULATION 3.0
This course will examine the ways in which people's food production and consumption patterns are affected by and related to other aspects of their social organization. The interrelationship between food production/consumption patterns, political life, stratification systems, and demography will be examined. The main focus will be a comparison between different forms of social organization with respect to the management of food and population issues.
- U 2208 218
SOCIOLOGY OF POPULATION 3.0
Problems of population and demographic change; social and psychological foundation of fertility in the contexts of social class and religious ideologies; the impact of urbanization. The uses of demographic data. Transcultural studies, racial differences and ecological factors are discussed.
- U 2208 219
SOCIOLOGY OF AGING 3.0
Aging process from a sociological perspective. Demographic trends, sociological theories, sociocultural factors, aging in different societies and social movements among the elderly.
- U 2208 300
EXTERNSHIP IN SOCIOLOGY 3.0-9.0
Students will select an institution in the metropolitan area in which to become participant-observer. Application of sociological perspective to the problems and structure of institutions encouraged through faculty supervision. Multiple semester selection permitted with approval.
- U 2208 301
SOCIOLOGICAL RESEARCH METHOD I 3.0
The formulation of hypotheses, survey design, participant observation and the use of elementary statistics; certain broad problems in the philosophy of social science.
- U 2208 303
LARGE SCALE ORGANIZATIONS 3.0
The structure and functions of bureaucracy in modern society; the life cycle of large organizations and their methods of operation; selected contemporary problems.
- U 2208 304
SOCIOLOGY OF WORK AND PROFESSIONS 3.0
The meaning of work in society; professionalization; occupation ideologies; social-psychological aspects of attitudes toward work and specific occupations; occupational stratification; social structures within which work takes place.
- U 2208 310
DIRECTED INDEPENDENT RESEARCH 3.0-9.0
Research and report under faculty direction. The student selects for investigation an area of sociological concern with the approval of a faculty supervisor. Multiple semester selection permitted with approval
- U 2208 311
URBAN SOCIOLOGY 3.0
Processes of urbanization and conditions of urban life; nature of urban social relationships; organizations of city life; urban ecological patterns and demographic conditions; municipal and regional influences of metropolitan centers.
- U 2208 312
SOCIOLOGICAL THEORY: HEURISTIC APPROACH 3.0
The nature of sociological theory. How an understanding of social phenomena is possible, how sociological theory develops, what pre-suppositions it is based on, and how different perspectives on social reality can be used by the student of sociology.
- U 2208 313
SOCIOLOGICAL THEORY: CRITICAL ANALYSIS 3.0
A comparison of important theories on key themes in sociology: the nature of social interaction, the definition of power, stratification, social control and deviance, alienation and anomie, social structure and function, social bases of knowledge and belief, and social conflict and change.
- U 2208 314
STATISTICS FOR SOCIAL RESEARCH 3.0
The use of descriptive summary and comparative techniques. Tools for the analysis of relationships in data generated in research, or for the evaluation of published research. (Recommended in preparation for the course in research methods.)
- U 2208 315
SOCIAL STRATIFICATION 3.0
The inequalities of social ranking systems in virtually all known societies; Theoretical and empirical approaches of stratification; Delineating the variables of power. Power elites, class consciousness, alienation and class mobility.
- U 2208 320
SOCIOLOGY OF INTENTIONAL COMMUNITIES 3.0
The sociology, history, and literature of communitarian ventures, with emphasis on contemporary communes, cooperatives and collectives. Literature and philosophy of Utopia will be explored through a sociological perspective.
- U 2208 321
WHITE COLLAR CRIME 3.0
An examination of the nature, scope, forms and styles of occupational and business-related criminal activities in the U.S., as well as its social, political and economic implications.
- U 2208 330
POLITICAL SOCIOLOGY 3.0
This course will endeavor to give the student a relatively complete understanding of the social dynamics of political actions on various levels.
- U 2208 334
COMPARATIVE SOCIAL ANALYSIS 3.0
Comparative sociological schemes; the analytical blocks of total society. Kinship, family and marriage, policy and bureaucracy; social stratification and mobility; industrialization and urbanization; belief systems and value orientations.
- U 2208 335
WORKERS AND THEIR ORGANIZATIONS 3.0
The course aims to provide the student with a general overview of the nature of work in modern society and of the ways in which workers react to it. In particular, the ways in which workers' organizations develop, and are shaped by community and political forces, will be an important focus.

U 2208 336
THE SOCIOLOGY OF HELPING PROFESSIONS AND INSTITUTIONS 3.0
 This course focuses on the social functions, determinants, and consequences of helping professions such as social work, and helping institutions such as public welfare. Particular emphasis is placed on the relations of helping professions and institutions with their socio-political environment and with their clients.

U 2208 337
METHODS AND TECHNIQUES IN THE HELPING PROFESSIONS 3.0
 This course focuses on the social processes involved in working with and helping people in such endeavors as social work and in such settings as hospitals. Particular emphasis is placed on understanding the dominant contemporary methods and techniques which are used to provide help to those in need.

U 2208 390
COOPERATIVE EDUCATION IN SOCIOLOGY 8.0
 The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The co-op term is a semester off campus, during which a student is supervised by a faculty coordinator and the office of cooperative education and is responsible for completing the terms of a learning contract.

U 2208 402
THE SOCIAL ROLE OF PSYCHOTHERAPIES 3.0
 Various psychotherapies, from classical Freudian to encounter groups in relation to existing culture and to the feasible application of these therapies.

U 2208 403
SOCIOLOGY OF KNOWLEDGE 3.0
 The social origins of anything considered to be knowledge in a given social environment.

U 2208 404
SOCIOLOGY OF RELIGION 3.0
 The social bases of religious belief and activity. Religious movements, denominationalism, sectarianism, secularization, pluralism, the social bases of belief and unbelief, and cross-cultural and historical comparisons.

U 2208 405
DEVIANCE AND SOCIAL CONTROL 3.0
 Various theoretical perspectives on human deviance; the interaction of the forces of social control and "deviant" behavior.

U 2208 406
SOCIOLOGY OF SMALL GROUPS 3.0
 Structured along lines of educational self-analytic groups. Students will learn about small group dynamics and interpersonal processes by studying the on-going interaction of the class as small groups.
Prerequisite: U 2208 206.

U 2208 408
SOCIAL MOVEMENTS 3.0
 This course focuses on the study of concerted collective behavior for social change, or social movements. Various approaches to the understanding of social movements, including the natural history, case study, and analytical models, will be examined. Emphasis will be placed on relating theoretical work to contemporary empirical examples to social movement activity.

U 2208 410
SOCIAL ACTION PRACTICUM 3.0-9.0
 Students, individually or in groups, design and implement field research and activity with an explicit, culturally defined objective, as an exercise in "applied sociology".

U 2208 411
SELECTED TOPICS IN SOCIOLOGICAL THEORY 3.0
 The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to only the general area of sociological theory.

U 2208 412
SELECTED TOPICS IN SOCIOLOGICAL RESEARCH METHODS 3.0
 The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to projects or study in research methodology.

U 2208 413
SELECTED TOPICS IN INSTITUTIONAL PROCESSES 3.0
 The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to a consideration of problems in institutional processes.

U 2208 414
SELECTED TOPICS IN APPLIED SOCIOLOGY 3.0
 The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to the application of sociological methodology, theory or content to social situations, or to community issues or problems.

U 2208 421
SOCIAL USES OF LANGUAGE 3.0
 To explore the function of language in everyday life, focusing on the implications of the sociology of language for the understanding of such other areas of religion, and social change.

U 2208 430
SOCIOLOGY OF SEX ROLES 3.0
 The social determinants of differences between women and men and the effect of sex role differentiation in the social institutions of marriage and family, the economy and work situation, formal education, health, mass media, and religion. Special emphasis is placed on the impact of social change on sex roles in contemporary society.



Hispanic Community Affairs Minor

Required Courses

1105 472	Puerto Rican Literature and Thought	3
or		
1105 280	Cuban Cultural History	3

Electives

Select 12 semester hours in courses from the interdepartmental list obtained from the department of Spanish and Italian.

Field Work

Semester Hours

Select 3 courses

1105 360	Hispanic Community Program	3
1105 481	Field Work I	3
1105 482	Field Work II	3
1105 483	Field Work III	3

Paralegal Studies Minor

The Paralegal Studies Minor, in combination with any number of diverse majors, prepares the student to work in many legally-related fields. This ABA approved program is 24 semester hours. An optional Hispanic Specialization, through internship and training offered in the Spanish department, is available to students fluent in Spanish. For a complete description of the Paralegal Studies Program contact the Center for Legal Studies, or see the Legal Studies section of this catalog.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. As part of the professional sequence students must take 1105 419 The Teaching of Spanish in Secondary Schools.

Second Teaching Field in Spanish

Required Courses

Semester Hours

24 semester hours:

1105 141	Grammar and Composition I	3
1105 142	Grammar and Composition II	3
1105 209	Introduction to Spanish Phonetics	3
1105 260	Spanish Cultural History, or	3
1105 270	Spanish-American Cultural History	3
1105 309	Spanish Conversation	3
1105 410	Spanish Grammar for Teachers	3

Electives (Major)

Select 6 semester hours in literature courses from the appropriate list to be obtained from the department.

NOTE: If a student has not studied a methods course in foreign language teaching, it is necessary to take 1105 419, The Teaching of Spanish in Secondary Schools.

Concentration in Translating and Interpreting

Required Courses

Semester Hours

1105 350	Translating I	3
1105 351	Translating II	3
1105 452	Translating III	3
1105 450	Consecutive and Simultaneous Interpreting	3

Spanish and Italian

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Janet Susi

The major in Spanish or Italian develops sound scholarship by helping the student acquire linguistic fluency with an understanding of Italian and Hispanic cultures.

Candidates for the B.A. choose an area of study in the Italian language, literature and culture; the Spanish language, Peninsular Spanish literature and culture and Spanish American literature and culture. The department offers courses for teacher certification in Spanish and Italian and a concentration in translating and interpreting in Spanish.

Majors are urged to spend a year, a semester, or a summer studying in Italy or a Spanish speaking country. This study should be planned for the junior year. Majors who intend to pursue graduate studies are advised to acquire proficiency in at least one additional language.

Students may minor in Italian or Spanish; select second teaching fields in either language; or pursue interdisciplinary minors in Hispanic community affairs or paralegal studies. In addition, a minor program in Portuguese studies is offered.

Spanish Major

Required Courses

Semester Hours

24 semester hours:

1105 141	Grammar and Composition I	3
1105 142	Grammar and Composition II	3
1105 151	Masterpieces of Spanish Literature I	3
1105 152	Masterpieces of Spanish Literature II	3
1105 161	Masterpieces of Spanish-American Literature I	3
1105 162	Masterpieces of Spanish-American Literature II	3
1105 260	Spanish Cultural History	3
1105 270	Spanish-American Cultural History	3

Electives (Major)

Select 12 semester hours with at least one course from literature and one from language. Obtain elective list from the department.

Spanish Minor

Required Courses

Semester Hours

18 semester hours:

1105 141	Grammar and Composition I	3
1105 142	Grammar and Composition II	3
1105 152	Masterpieces of Spanish Literature II	3
1105 162	Masterpieces of Spanish-American Literature II	3
1105 260	Spanish Cultural History	3
or		
1105 270	Spanish American Cultural History	3

Electives (Major)

Select 3 semester hours in a literature course.

The concentration in translating and interpreting is designed to enhance the preparation of Spanish majors who are considering careers in diplomatic service, business, social service or law or who have an interest in literary translation.

Students who have successfully completed Translating III are eligible to take the certification examination given each year in May.

Portuguese Minor

Course Offerings

1198, 101, 102	Portuguese I and II (beginning level)	3
1198, 103, 104	Portuguese III and IV (intermediate level)	3
1198 141, 142	Portuguese Grammar and Composition I and II (advanced level)	3 ea.
1198 160	Masterpieces in Portuguese Literature	3
1198 162	Masterpieces in Brazilian Literature	3
1198 260	Luso-Brazilian Culture	3

For a minor in Portuguese, a student selects 18 semester hours from 1198 103 and above.

Italian Major

Required Courses

18 Semester hours:

1104 141	Italian Grammar and Composition I	3
1104 142	Grammar and Composition II	3
1104 160	Italian Cultural History I	3
1104 161	Italian Cultural History II	3
1104 240	Italian Literature: Origins to 18th Century	3
1104 241	Italian Literature: 18th to 20th Centuries	3

Electives (Major)

Select 18 semester hours from the appropriate list obtained from the department.

Italian Minor

Required Courses

18 semester hours:

1104 141	Italian Grammar and Composition I	3
1104 142	Grammar and Composition II	3
1104 160, 161	Italian Cultural History I and II	6
1104 240	Italian Literature: Origins to 18th Century	3
1104 241	Italian Literature: 18th through 20th Centuries	3

Teacher Certification

Students interested in teaching Italian must be admitted to the Teacher Education program. See the department of Curriculum and Teaching for admission requirements and professional sequence. As part of the professional sequence for Italian this course must be taken:

1104 419	The Teaching of Italian in Secondary Schools	3
----------	--	---

Second Teaching Field in Italian

24 semester hours:

1104 141	Italian Grammar and Composition I	3
1104 142	Italian Grammar and Composition II	3
1104 160, 161	Italian Cultural History I and II	6
1104 209	Italian Conversation	3
1104 240	Italian Literature: Origins to 18th Century	3
1104 241	Italian Literature: 18th through 20th Centuries	3
1104 410	Italian Grammar for Teachers	3

NOTE: If a student has not studied a methods course in foreign language teaching, it is necessary to take 1104 419, The Teaching of Italian in Secondary Schools.

Courses of Instruction

V 1104 101

ITALIAN I

3.0

For students with no previous knowledge of Italian. This course imparts the basic foundations in the language.

V 1104 102

ITALIAN II

3.0

Training in understanding, speaking, reading and writing the language. A continuation of Italian I

Prerequisite: V 1104 101 or equivalent.

V 1104 103

ITALIAN III

3.0

A continuation of Italian II to strengthen the four language skills.

Prerequisite: V 1104 102 or equivalent.

V 1104 104

ITALIAN IV

3.0

A continuation of Italian III to strengthen the basic language skills through reading and composition.

Prerequisite: V 1104 103 or equivalent.

V 1104 141

ITALIAN GRAMMAR AND COMPOSITION I

3.0

Gives students better control of the structure of the language through written and oral practice. Required for majors.

Prerequisite: V 1104 104 or equivalent.

V 1104 142

GRAMMAR AND COMPOSITION II

3.0

Mastery of the language through written and oral exercises. Review of advanced grammar. Required for majors.

Prerequisite: V 1104 141.

V 1104 160

ITALIAN CULTURAL HISTORY I

3.0

An outline of Italian history and culture from the Middle Ages to the Renaissance. Medieval political, social and cultural realities: Church, Empire, national monarchies and free cities. Humanism and the Renaissance: philosophical, artistic, literary and musical expressions. Required for majors.

Prerequisite: V 1104 104.

V 1104 161

ITALIAN CULTURAL HISTORY II

3.0

An outline of Italian history and culture from the 16th century to the present. Galileo and the development of modern scientific thought, the Italian opera. The enlightenment in Italy: social, philosophical and legal literature. The Risorgimento, the political unification and the emerging of a national culture. Issues in modern Italy: the fascist period and contemporary political and social forces. Required for majors.

Prerequisite: V 1104 160.

V 1104 209

ITALIAN CONVERSATION

3.0

Practice in spoken Italian through assigned topics and discussions about daily life and world events. An opportunity to acquire an adequate vocabulary and competence in Italian as an instrument of oral expression.

Prerequisite: V 1104 104.

- V 1104 240
STUDIES IN ITALIAN LITERATURE: ORIGINS
TO 18th CENTURY 3.0
Representative works from the Scuola Siciliana to the 18th century
analyzed and discussed. Required for majors.
Prerequisite: V 1104 104.
- V 1104 241
STUDIES IN ITALIAN LITERATURE: 18th THROUGH
20th CENTURIES 3.0
Representative works of the 18th through 20th centuries analyzed and dis-
cussed to prepare students for the analysis of literary works. Required for
majors.
Prerequisite: V 1104 104.
- V 1104 277
ITALIAN LITERATURE OF THE 18th CENTURY 3.0
Representative works of the most important writers of this century: Gol-
doni, Parini, Alfieri, and others will be read and analyzed.
Prerequisite: V 1104 240.
- V 1104 341
ITALIAN LITERATURE OF THE RENAISSANCE I 3.0
The development of humanism in Italy through a study of significant
works of representative authors of the 14th, 15th and 16th centuries. Em-
phasis on select works of Petrarch and Boccaccio.
Prerequisites: V 1104 240, 1104 241.
- V 1104 342
ITALIAN LITERATURE OF THE RENAISSANCE II 3.0
The development of humanism in Italy through a study of significant
works of representative authors of the 14th, 15th and 16th centuries.
Selected readings from Lorenzo de Medici, Poliziano, Pulci, Boiardo,
Ariosto, Tasso, Machiavelli and others.
Prerequisites: V 1104 240 and 241.
- V 1104 351
ITALIAN LITERATURE OF THE 20th CENTURY I 3.0
Particular attention to the contemporary period. Pirandello, Saba, Un-
garetti, Montale, and Quasimodo.
Prerequisite: V 1104 241.
- V 1104 352
ITALIAN LITERATURE OF THE 20th CENTURY II 3.0
Particular attention to the contemporary period. Pavese, Moravia, Silone,
Vittorini, and others.
Prerequisite: V 1104 241.
- V 1104 361
ITALIAN LITERATURE OF THE 19th CENTURY I 3.0
Neo-classicism, romanticism, and verismo: Foscolo, Marzoni, and
Leopardi.
Prerequisite: V 1104 241.
- V 1104 362
ITALIAN LITERATURE OF THE 19th CENTURY II 3.0
Neo-classicism, romanticism, and verismo. Carducci, Pascoli, Verga,
and D'Annunzio.
Prerequisite: V 1104 241.
- V 1104 371
ITALIAN LITERATURE OF THE 13th and
14th CENTURIES 3.0
The most important representatives of the Sicilian and Tuscan Schools,
with particular attention to the Dolce Stil Novo and the works of Dante.
Prerequisite: V 1104 240.
- V 1104 375
STUDY ABROAD 3.0
Study at an Italian university. Opportunity to gain first hand knowledge
of the historical, social, economic and cultural life of Italy. Credit by
evaluation.
Prerequisite: Permission of department chairperson.
- V 1104 410
ITALIAN GRAMMAR FOR TEACHERS 3.0
A review of the most important structural features of Italian with special
emphasis on those areas of interference with English which present the
greatest difficulties for the student of Italian. Open to all Italian majors
Prerequisite: V 1104 142.
- V 1104 461
DANTE SEMINAR I 3.0
Medieval thought as represented in Dante's works. A selection of readings
from Vita Nova, Convivio, Monarchia. Analysis and exegesis of Inferno.
Prerequisites: V 1104 240, V 1104 241.
- V 1104 462
DANTE SEMINAR II 3.0
Medieval thought as represented in Dante's works. A selection of readings
from Vita Nova, De Vulgari Eloquentia, Convivum, and Divina Com-
media read and analyzed.
Prerequisites: V 1104 240, V 1104 241.
- V 1104 480
INDEPENDENT STUDY 3.0
Directed independent study and research in Italian. Open to students with
a minimum of 3.0 cumulative average in at least 9 hours of Italian elec-
tives.
Prerequisites: 24 hours of major Italian credits.
- V 1105 101
SPANISH I 3.0
For students with no previous Spanish. Training in understanding, speak-
ing and writing the language.
- V 1105 102
SPANISH II 3.0
Training in understanding speaking, reading and writing the language. A
continuation of Spanish I.
Prerequisite: V 1105 101 or equivalent.
- V 1105 103
SPANISH III 3.0
A continuation of Spanish II to strengthen the language skills of under-
standing, speaking, reading and writing of the language.
Prerequisite: V 1105 102 or equivalent.
- V 1105 104
SPANISH IV 3.0
A continuation of Spanish III to strengthen the skills of understanding,
speaking, reading and writing of the language.
Prerequisites: V 1105 103, V 1105 120 or equivalent.
- V 1105 105
PRACTICAL SPANISH FOR LEGAL PERSONNEL 3.0
Course designed to provide personnel dealing with Hispanics in legally-
related situations with a basic knowledge of the Spanish language as it re-
lates to the performance of their jobs in assisting Hispanics. Not for major
credit.
- V 1105 106
TRANSLATING FOR PARAPROFESSIONALS 3.0
Course designed to improve the translating skills of bilingual personnel
working with the Hispanic community in the setting of a legal service
agency. Not for major credit.
Prerequisite: Permission of instructor.

V 1105 120
COMPREHENSIVE SPANISH I AND II 3.0
Beginning Spanish I and II in one semester.

V 1105 135
ADVANCED PRACTICE IN SPANISH
FOR NON-MAJORS 3.0
This course provides students who are not Spanish majors with a program which enables them to perfect their command of both written and spoken Spanish beyond the intermediate II level. The course is unique in that it places equal stress upon speaking, reading and writing in order to enable the student to function effectively with Spanish-speaking people in the student's chosen profession. Emphasis is placed upon the more practical aspects of language learning.
Prerequisite: V 1105 104.

V 1105 140
COMPREHENSIVE SPANISH III AND IV 3.0
Intermediate Spanish III and IV in one semester.
Prerequisite: V 1105 102 or 120.

V 1105 141
SPANISH GRAMMAR AND COMPOSITION I 3.0
This course is designed to give students an active command of the language by means of oral and written exercises, accompanied by a thorough review of the grammar, vocabulary, and idioms. Required for majors.
Prerequisite: V 1105 140 or equivalent.

V 1105 142
SPANISH GRAMMAR AND COMPOSITION II 3.0
This course is designed to improve the student's mastery of the language through written and oral exercises accompanied by a review of advanced grammar. Required for majors.
Prerequisite: V 1105 141.

V 1105 145
READINGS IN HISPANIC LITERATURE 3.0
This course deals with selected contemporary readings from both Spanish and Latin American literatures. Texts have been chosen which present the student with a window on Hispanic culture and which focus on fundamental socio-political and philosophical issues.

V 1105 150
INTRODUCTION TO HISPANIC LITERATURE 3.0
The course proposes to identify the characteristics of various literary genres and define the inner workings of a piece of literature. Selections from the epic poem, the ballad, drama, satirical essays, philosophical novels, etc., will be used to enable the student to define the uniqueness of each genre. Certain forms of literature such as the *jarcha*, *romance*, *serjel*, peculiar to the Spanish literary tradition will also be analyzed. The role of the author, the uses of images and irony, the narrative point of view, etc., will be stressed as essential to literary criticism. Required for majors.
Prerequisite: V 1105 132, or 140, or equivalent.

V 1105 151
MASTERPIECES OF SPANISH LITERATURE I 3.0
The course is designed to introduce the students to Spain's literary history through an analysis of its major works, movements, and cultural trends from the medieval period to 18th century. Required for majors.
Prerequisite: V 1105 104, 140 or equivalent.

V 1105 152
MASTERPIECES OF SPANISH LITERATURE II 3.0
The course is designed to introduce the student to Spain's literary history through an analysis of its major works, movements, and cultural trends from 18th century to the present. Required for majors.
Prerequisite: V 1105 104, 140 or equivalent.

V 1105 161
MASTERPIECES OF SPANISH-AMERICAN
LITERATURE I 3.0
The aim of the course is to give the student a general and comprehensive understanding of Spanish-American literature from pre-Columbian times to the latter part of the 19th century. Required for majors.
Prerequisite: V 1105 104, 140 or equivalent.

V 1105 162
MASTERPIECES OF SPANISH-AMERICAN
LITERATURE II 3.0
The aim of the course is to give the student a comprehensive understanding of Spanish-American literature from the beginning of modernism to the contemporary period. Required for majors.
Prerequisite: V 1105 104, 140 or equivalent.

V 1105 209
INTRODUCTION TO SPANISH PHONETICS 3.0
Spanish phonetics and phonemics: theory and practice. Comparative analysis of Spanish and English phonology. The language laboratory is used extensively. Required for teacher certification.
Prerequisite: V 1105 104 or V 1105 140.

V 1105 221
COMMERCIAL SPANISH 3.0
For students interested in the business field: styles of letter writing, business vocabulary, legal terminology. Emphasis on written fluency and expression.
Prerequisite: V 1105 141.

V 1105 260
SPANISH CULTURAL HISTORY 3.0
The political, social, philosophical, literary and artistic ideas and institutions of Spain. Required for majors.
Prerequisites: V 1105 104 or V 1105 140.

V 1105 265
THE SPANISH-AMERICAN NOVEL 3.0
Development of the Spanish-American novel up to 1945.
Prerequisites: V 1105 161, 162.

V 1105 270
SPANISH-AMERICAN CULTURAL HISTORY 3.0
Development of the politics, art and philosophy of the Spanish-speaking nations of the western hemisphere. Required for majors.
Prerequisites: V 1105 104 or V 1105 140.

V 1105 280
CUBAN CULTURAL HISTORY 3.0
A survey of the Cuban cultural development from the time of the discovery of Cuba to the present. This course is especially designed to acquaint the Cuban born or the Cuban-American student with his cultural roots and to inform other interested Hispanic and Anglo-American students about the cultural heritage of Cuba.
Prerequisite: V 1105 104, 140 or equivalent.

V 1105 309
SPANISH CONVERSATION 3.0
Practice in spoken Spanish through assigned topics and participation in discussions about daily life and world events. Gives a competence in Spanish as an instrument of oral expression. Classes limited to 16 students. Required for teacher certification. Native speakers of Spanish must substitute another elective.
Prerequisite: V 1105 142.

- V 1105 345
CHILDREN'S LITERATURE OF THE HISPANIC WORLD 3.0
 A study of children's literature of Spain and Spanish America. Readings from traditional children's poems, stories, plays and from works written for children by distinguished authors such as Benavente, Gabriela Mistral, and García Lorca.
Prerequisites: V 1105 152, 162.
- V 1105 350
TRANSLATING I 3.0
 Introduction to the techniques of translating Spanish/English and English/Spanish. Students translate actual documents and texts from a wide variety of fields in order to gain experience in methods of analysis, research and verification.
Prerequisites: V 1105 141, 142.
- V 1105 351
TRANSLATING II 3.0
 A continuation of Translating I. Materials chosen for translation reflect the career interests of the students in the class. Emphasis on professional ethics and the rudiments of translation theory.
Prerequisite: V 1105 350.
- V 1105 352
PRACTICUM IN TRANSLATING 3.0
 This course is designed to provide students with the practical experience of translating in semi-professional situations under faculty supervision.
Prerequisite: V 1105 350.
- V 1105 360
HISPANIC COMMUNITY PROGRAM 3.0
 Interdisciplinary approach to field work in an area of the Spanish-speaking communities in New Jersey: Internships in Law, Psychology, and Social Awareness. Open to any student in the college with a working knowledge of Spanish.
Prerequisite: Permission of instructor.
- V 1105 365
SPANISH NOVEL OF THE 20th CENTURY 3.0
 The modern novel in Spain beginning with the Generation of '98.
Prerequisites: V 1105 151, 152.
- V 1105 368
CONTEMPORARY SPANISH AMERICAN SHORT STORY 3.0
 Trends in the contemporary short story. The short story as an important genre in Spanish American letters.
Prerequisites: V 1105 161, 162.
- V 1105 369
THE DRAMA OF THE GOLDEN AGE 3.0
 Representative dramatists of the Siglo de Oro: Lope de Vega, Tirso de Molina, Ruiz de Alarcón and Calderón de la Barca.
Prerequisites: V 1105 151, 152.
- V 1105 370
CONTEMPORARY SPANISH AMERICAN POETRY 3.0
 A study of contemporary Spanish American poetry from its roots in modernism to the present day.
Prerequisites: V 1105 161, 162.
- V 1105 371
SPANISH POETRY AND DRAMA OF THE 19th CENTURY 3.0
 A critical study of the main works of this century beginning with Duque de Rivas and Espronceda through Galdós.
Prerequisites: V 1105 151, 152.
- V 1105 372
SPANISH PROSE OF THE 19th CENTURY 3.0
 The main works in romanticism, realism and naturalism in 19th century Spain.
Prerequisites: V 1105 151, 152.
- V 1105 375
STUDY ABROAD 3.0
 Study at a university in a Spanish-speaking country to gain firsthand knowledge of the historical, social, economic and cultural life.
Prerequisites: Permission of department chairperson. Credit by evaluation.
- V 1105 410
SPANISH GRAMMAR FOR TEACHERS 3.0
 This course is a review of the most important structural features of Spanish, with special emphasis in those areas of interference with English structure which present the greatest difficulties to the student of Spanish. Required for teacher certification. Open to all Spanish majors.
- V 1105 419
THE TEACHING OF SPANISH IN SECONDARY SCHOOLS 3.0
 Values and aims in foreign language teaching, survey of methods, pronunciation, reading, grammar, reviews, realia, examinations, supervised study, etc. Readings and discussions, lesson planning and demonstrations, and organization of material for student teaching. Required for certification.
Prerequisite: Senior standing.
- V 1105 450
CONSECUTIVE AND SIMULTANEOUS INTERPRETING 3.0
 This course is designed to teach students the specialized techniques of oral interpreting and to prepare them for a career in the field. Visits to observe professional interpreters at work will be arranged.
Prerequisites: V 1105 350, 351.
- V 1105 452
TRANSLATING III 3.0
 Under careful supervision, the student will prepare a translation project, usually consisting of the translation of a text of approximately 50 typewritten pages.
Prerequisites: V 1105 350, 351.
- V 1105 460
EL QUIJOTE 3.0
 The literary and social background, structure, themes and style of El Quijote.
Prerequisites: V 1105 151, 152.
- V 1105 465
SPANISH THEATRE OF THE 20th CENTURY 3.0
 Principal trends of the Spanish theatre from Benavente to the contemporary dramatists.
Prerequisites: V 1105 151, 152.
- V 1105 466
CONTEMPORARY SPANISH-AMERICAN THEATRE 3.0
 The principal movements of the theatre in Spanish America in the 20th Century.
Prerequisites: V 1105 161, 162.
- V 1105 470
SENIOR SEMINAR 3.0
 Selected topics from Spanish and Spanish-American literature are studied in depth.
Prerequisite: Senior majors only or permission of instructor.

- V 1105 471
CONTEMPORARY TRENDS IN THE SPANISH-AMERICAN NOVEL 3.0
The contemporary novel in Spanish America, with emphasis on the "nueva novela."
Prerequisite: V 1105 162.
- V 1105 472
PUERTO RICAN LITERATURE AND THOUGHT 3.0
Insight into the literature and philosophy of the Caribbean Hispanic world; contemporary Puerto Rican writers and the Puerto Rican influence in the United States.
Prerequisites: V 1105 161, 162.
- V 1105 475
SEMINAR ON HISPANIC CULTURE IN THE UNITED STATES 3.0
A study of the Hispanic cultures and their adaptation culturally and linguistically to the U.S., considering especially Puerto Ricans, Chicanos and other minority groups.
Prerequisite: V 1105 472 or permission of instructor.
- V 1105 476
SEMINAR ON HISPANIC CULTURE IN NEW JERSEY 1.0
A study of principal Hispanic communities in the state of N.J.
- V 1105 480
INDEPENDENT STUDY 3.0
Directed independent study and research in Spanish. Open to students with a 3.0 cumulative average in at least 9 semester hours of Spanish electives.
Prerequisites: 24 hours of major Spanish credit.
- V 1105 481
FIELD WORK IN HISPANIC COMMUNITY I 3.0
Required course in the academic minor in Hispanic community affairs. Students will devote 90 hours work in the area in which they choose to concentrate: child care centers, mental health clinics, recreation activities, social agencies, etc. In addition, the students must carry out an independent project related to their work. Not for major credit.
Prerequisite: V 1105 360.
- V 1105 482
FIELD WORK IN HISPANIC COMMUNITY II 3.0
A continuation of 1105 481. Student may continue in chosen job center, or may choose a new placement. 90 hours work required for completion of credit. Not for major credit.
Prerequisite: V 1105 481 or permission of instructor.
- V 1198 101
PORTUGUESE I 3.0
For students with no previous knowledge of Portuguese. Training students to understand, speak, read and write the language.
- V 1198 102
PORTUGUESE II 3.0
A continuation of Portuguese I, furthering the training in the understanding, speaking, reading and writing of the language.
Prerequisite: V 1198 101 or equivalent.
- V 1198 103
PORTUGUESE III 3.0
Strengthening the basic language skills established in Portuguese II through advanced grammar and selected readings.
Prerequisite: V 1198 102 or equivalent.
- V 1198 104
PORTUGUESE IV 3.0
A continuation of Portuguese III, to strengthen basic language skills through advanced grammar and selected readings.
Prerequisite: V 1198 103 or equivalent.

- V 1198 260
LUSO-BRAZILIAN CULTURE 3.0
Portuguese and Brazilian literary masterpieces will be used as the basis for examining and understanding the distinctive cultural mores, values, and perceptions in the evolution of Portugal and Brazil.

- K 4903 161
MAGIC REALISM IN SPANISH AMERICAN LITERATURE 3.0
A study of magic realism as manifested in representative works of contemporary Spanish American fiction. Works to be read in English translation. Taught in English. Not for major credit.

- K 4903 176
ITALIANS AND ITALIAN AMERICANS: COMPARATIVE STUDIES 3.0
This course shows the relationship between the Italian and Italian-American experiences. It deals with aspects of religion, politics, language, work and moral codes. Comparisons are made with the experiences of other ethnic groups in America. The course is taught with an interdisciplinary approach. Taught in English. Not for major credit.

- K 4903 277
THE ITALIAN CINEMA 3.0
Development of the Italian cinema from neo-realism to today, in particular dealing with the following directors: Rossellini, Fellini, DeSica, Zavattini, Bertolucci, Pasolini, Antonioni, Germi and Wertmueller. Taught in English. Not for major credit.

- K 4903 278
SPANISH LITERATURE OF THE 20th CENTURY 3.0
Designed for non-Spanish majors who wish to read major Spanish literary works in English translation. Authors included are Unamuno, Machado, Ortega y Gasset, Juan Ramon Jimenez and Garcia Lorca. Taught in English. Not for major credit.

- K 4903 377
THE ITALIAN AMERICAN NOVEL 3.0
A presentation of representative works of Italian-American authors dealing with the problems of the Italian immigrant as he/she inserts him/herself into the American mainstream. Taught in English. Not for major credit.



1007 411	Dramatic Criticism	3
1007 495	Thesis OR 1007 403 Independent Study	3
Theatre Practicum:		
	Practicum in Costuming	1
	Practicum in Construction	1
	Practicum in Management	1
	Practicum in Lighting	1
	Practicum (free choice)	2

Collateral Course

Select one 3 semester hour course from the appropriate list to be obtained from the department 3

Electives (theatre)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Free Electives 19

COMMUNICATION THEORY AND PRACTICE

Required Courses

1007 122	Acting I	3
1506 234	Fundamentals of Public Speaking	3
1506 438	Seminar in Persuasion and Social Control	3
1506 441	Group Discussion and Leadership	3
OR		
1506 442	Argumentation and Debate	3
1506 271	Interpersonal Communication I	3
1506 272	Interpersonal Communication II	3
1506 334	Contemporary Public Address	3
1506 374	Group Processes	3
1506 375	Non-verbal Communications	3
1506 478	Seminar in Communication Theory	3

Free Electives 39

BROADCASTING

Required Courses

0603 101	Introduction to the Broadcasting Medium	3
0603 240	Writing for Broadcasting Media	3
0603 251	Radio and Television Production I	3
0603 252	Television Production II	3
0603 253	Radio Production II	3
0603 350	Television Production III	3

Select Two

0603 315	Political Television and Radio	3
0603 380	Cultural Impact of Broadcasting	3
0603 491	International Broadcasting	3
0603 460	Station Management	3

(Professional courses, as offered, satisfy this requirement)

Free Electives 36

Dance Performance

Required Courses

1008 141	Modern Dance Technique Beginning I	2
1008 142	Modern Dance Technique Beginning II	2
1008 241	Modern Dance Technique Intermediate I	2
1008 242	Modern Dance Technique Intermediate II	2
1008 210	History of Dance	3
1008 351	Dance Technique Ballet I	2
1008 352	Dance Technique Ballet II	2
1008 161	Choreography Beginning	2
1008 480	Dance Production	3
Practicum: 3 Dance, 1 Theatre		4
Required major elective		2

Speech and Theatre

SCHOOL OF FINE AND PERFORMING ARTS

Chairperson: Wayne Bond

For those interested in the theatre and its many facets—broadcasting, communications theory and practice, or dance—the department offers a Bachelor of Fine Arts and a Bachelor of Arts degree.

The Bachelor of Fine Arts has two concentrations designed for those seriously considering a theatre career: acting-directing and design-technical theatre. A successful interview and audition/portfolio examination is required for these concentrations. Auditions are held at least three times a year. The dates can be obtained through the department or the Admissions Office.

The Bachelor of Arts degree has five concentrations: broadcasting, communications theory and practice, dance, theatre, and teacher education. Each offers a broad approach and allows time for courses and interests in other fields. In order to major in these areas, a successful audition and/or interview must be completed. An interview is also required to minor in Speech and Theatre.

The department offers a special blend of theory and practice available through specialized internships, dance companies, concerts, and the Major Theatre Series. Participation in intercollegiate forensics is sponsored by the Student Government Association.

Speech and Theatre Major (all B.A. and B.F.A. concentrations)

Required Courses (Basic Core)

	Semester Hours
1007 100 Introduction to the Theatrical Medium	3
1506 103 Voice and Speech Improvement	3
0603 280 Elements of the Public Media*	3
Concentration Requirements—B.A.	23-30
Concentration Requirements—B.F.A.	74-76
Department Electives	0-11

*Elements of Public Media not required of the broadcast and dance major.

Concentrations Within the Program (B.A.)

THEATRE

Required Courses

	Semester Hours
007 122 Acting I	3
007 150 Technical Theatre I	3
007 210 Theatre History: Classical to Elizabethan	3
007 211 Theatre History: Restoration to Modern	3
007 208 Play Script Interpretation	3
007 330 Play Direction I	3
007 361 Dramatic Literature	3
506 363 Reader's Theatre	3
007 410 Seminar in Drama	3

Electives (dance)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Free Electives 39

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

In addition, the Speech and Theatre department has these requirements:

	Semester Hours
1506 104 Phonetic Study of Speech Sound	3
1007 122 Acting I	3
1007 150 Technical Theatre I	3
1506 160 Oral Interpretation of Literature	3
1007 201, 202, 203 Theatre Practicum	4
1506 234 Fundamentals of Public Speaking	3
1506 302 Practicum in Speech Improvement	3
1007 330 Play Direction I	3
1007 210 Theatre History: Classical to Elizabethan	3
1506 441 Group Discussion and Leadership	3
1506 407 Methods of Teaching Speech and Theatre	3

Free Electives 15

Concentrations Within the Program (B.F.A.)

ACTING/DIRECTING

Required Courses

	Semester Hours
1007 122 Acting I	3
1007 123 Acting II	3
1008 141/2 Modern Dance Technique Beginning I, II	4
1007 150 Technical Theatre I	3
1007 208 Play Script Interpretation	3
1007 210 Theatre History: Classical to Elizabethan	3
1007 211 Theatre History: Restoration to Modern	3
1007 222 Acting III	3
1007 223 Acting IV (Character)	3
1007 242 Drawing for Theatre or Theatre Elective	3
1007 278 Stage Makeup	2
1007 322 Acting V (Styles)	3
1007 323 Voice for the Performer	2
1007 324 The Profession of Acting (Acting VI)	3
1007 330 Play Direction I	3
1007 371 History of Costumes	3
1007 430 Play Direction II or Acting Elective	3
1007 436 Dramatic Workshop II	3
OR	
1007 480 Seminar in Theatrical Conceptualization	3
1007 201, 202, 203 Theatre Practicum	(6-8)
1007 490 Internship	11
OR	
1007 435 Dramatic Workshop	3
1007 403 Independent Study	3
Plus 5 semester hours chosen from the following:	
1007 365, 366, 367 Stage Technique: Dance Combat, Mime	1-3
1007 391 Play Writing	3
1007 431 Play Direction III	3
1007 433 Shakespeare Workshop	3
1007 438 Producing the Musical Comedy	3

Free Electives 14

DESIGN/TECHNICAL THEATRE

Required Courses

	Semester Hours
1007 122 Acting I	3
1007 150 Technical Theatre I	3
1007 208 Play Script Interpretation	3
1007 210 Theatre History: Classical to Elizabethan	3
1007 211 Theatre History: Restoration to Modern	3
1007 234 History of Decor	3
1007 242 Drawing for the Theatre	2
1007 245 Drafting for the Theatre	3
1007 250 Technical Theatre II	3
1007 278 Stage Makeup	2
1007 330 Play Direction I	3
1007 340 Theatrical Design	3
1007 345 Stage Design	3
1007 370 Costume Construction	3
1007 371 History of Costumes	3
1007 372 Introduction to Costuming for the Stage	3
1007 455 Fundamentals of Stage Lighting	3
1007 458 Advanced Lighting	3
OR	
1007 475 Advanced Problems in Costume Design	3
1007 403 Independent Study	
OR	
1007 490 Internship	6
1007 201/2/3 Theatre Practicum	6-8

Required Collateral Courses

1001 101 Foundations of Visual Organization I	3
1001 102 Foundations of Visual Organization II	3
Science course	3
Sociology course	3

Free Electives 12

Minor Programs

Students wishing to pursue a minor in the Speech and Theatre department, and have it listed on their transcript, must proceed as follows:

Submit an application (may be obtained from the department office) to the chairperson requesting status as a Minor Program Student in the department. Complete one of the Minor Program sequences. Request the Registrar (during the senior year) to certify on official records your completion of a minor program of study.

Communication Theory and Practice (Minor)

Required Courses

	Semester Hours
0603 280 Elements of the Public Media	3
1007 100 Introduction to Theatrical Medium	3
1506 103 Voice and Speech Improvement	3
1506 234 Fundamentals of Public Speaking	3
1506 271 Interpersonal Communication I	3
1506 374 Group Processes or	
1506 375 Non-verbal Communication	3

Dance (Minor)

Required Courses

1007 100 Introduction to Theatrical Medium	3
1007 201 Theatre Practicum I	1
1008 141 Modern Dance Technique Beginning I	2
1008 142 Modern Dance Technique Beginning II	2
1008 161 Choreography Beginning	2

1008 210	History of Dance	3
1008 241	Modern Dance Technique Intermediate I	2
1008 351	Dance Technique Ballet I	2

Electives (Departmental)

Select 2 semester hours from the appropriate list to be obtained from the department 2

Speech and Theatre (Minor)

Required Courses

	Semester Hours	
0603 280	Elements of Public Media	3
1007 100	Introduction to Theatrical Medium	3
1007 122	Acting I OR	3
1007 150	Technical Theatre I	3
1007 201	Theatre Practicum I	1
1506 103	Voice and Speech Improvement	3
1506 160	Oral Interpretation of Literature	3
1506 234	Fundamentals of Public Speaking	3

Theatre (Minor)

Required Courses

	Semester Hours	
0603 280	Elements of Public Media	3
1007 100	Introduction to Theatrical Medium	3
1007 122	Acting I	3
1007 150	Technical Theatre I	3
1007 201	Theatre Practicum	1
1007 210	Theatre History:	
	Classical to Elizabethan	3
1506 103	Voice and Speech Improvement	3

Courses of Instruction

10603 101
INTRODUCTION TO THE BROADCASTING MEDIUM 3.0
The development, organization and operation of radio and television in modern society; social and cultural influence of commercial and educational broadcasting.

10603 105
FUNDAMENTALS OF BROADCASTING 3.0
The structure of the American Broadcasting Industry; broadcast production including making radio and television commercials and disc-jockey-format music programs. For non-broadcast majors only.

10603 151
PRINCIPLES OF RADIO AND TELEVISION
PRODUCTION 3.0
Non-dramatic broadcast program materials and production with emphasis on producing, directing, performing, and operating equipment for simple program formats.

10603 222
TELEVISION PRACTICUM 1.0
Closed circuit television production. Students participate in a minimum of 7 of the 14 weekly sessions. May be repeated.
Prerequisites: 10603 251 or 10603 252 or 10603 350.

10603 240
WRITING FOR BROADCAST MEDIA 3.0
Writing of continuity and dramatic materials for the broadcast media, including news, commercials, and drama, and practical work in ENG reporting and TV news producing. Students must concurrently enroll in 10603 0222, Television Practicum.
Prerequisite: 10603 101.

10603 251
RADIO AND TELEVISION PRODUCTION I 3.0
The tools and techniques of television production applied to news, commercial, interview and demonstration programs.
Prerequisite: 10603 101.

10603 252
TELEVISION PRODUCTION II 3.0
Group activity in the preparation and presentation of broadcast materials including plays, speeches, interviews, announcing, newscasting, music programming and advertising; the use of educational school broadcasting.
Prerequisite: 10603 251.

10603 253
RADIO PRODUCTION II 3.0
The production of radio drama, documentaries and actualities including studio and location recording techniques, editing of audio tape, program organization and techniques of interviewing.
Prerequisite: 10603 251.

10603 280
ELEMENTS OF THE PUBLIC MEDIA 3.0
Broadcasting theory concentrating on the four controlling elements: the physical nature of the broadcasting media, historical background, economic constraints and the problems of social control.

10603 311
ELECTRONIC JOURNALISM 3.0
Practical training in gathering, writing, and producing news for radio and television; development of ethical electronic journalistic standards and practices as reflected by major social issues.
Prerequisites: 10603 240, 10603 252.

10603 315
POLITICAL TELEVISION AND RADIO 3.0
An historical-critical introduction to radio and TV as related to political figures, institutions and issues; J. L. Lewis, F. D. R., McCarthy hearings, Nixon-Kennedy debates and political conventions.

10603 350
TELEVISION PRODUCTION III 3.0
Two television productions written, produced and directed; production and direction of remote broadcasts.
Prerequisites: 10603 251, 10603 252.

10603 380
CULTURAL IMPACT OF BROADCASTING 3.0
The ways in which the broadcast media affect the mass culture and through it the values and mores of society. Includes history of mass culture and the mechanisms by which minority cultures and innovations can affect mass culture.

10603 403
INDEPENDENT STUDY 1.0-3.0
Proposals must be submitted for departmental approval prior to registration for the course.

I 0603 450
ELECTRONIC FIELD PRODUCTION AND POST-PRODUCTION 3.0
 Methods of electronic field production and post-production, including operation of color E.F.P. equipment and ¾ inch color video editing equipment, planning and development of shooting script. Production of programs.
Prerequisites: I 0603 350 and permission of instructor.

I 0603 460
STATION MANAGEMENT 3.0
 Economic support patterns; evolution of broadcast programming; determining community needs; on-air operations; station promotion and advertising; legal and ethical questions relating to broadcasting.
Prerequisites: I 0603 251, I 0603 252.

I 0603 470
SPECIAL STUDIES IN BROADCASTING 3.0
 The theory and actual current practice in the business, managerial and/or legal aspects of the broadcasting industry as provided by practicing professionals in the field. This course may be repeated for credit.
Prerequisites: I 0603 252, instructor's permission, majors only.

I 0603 491
INTERNATIONAL BROADCASTING 3.0
 Major broadcasting systems including those of England, Canada, Japan, Russia, Germany, France and Italy. Voice of America, Radio Free Europe, Missionary Radio, group listening and viewing systems.
Prerequisite: I 0603 101.

I 1007 100
INTRODUCTION TO THEATRICAL MEDIUM 3.0
 All forms of theatrical literature and productions including drama, ballet, mime, opera, circus, musical comedy and mass media.

I 1007 122
ACTING I 3.0
 Basic techniques of theatrical communication involving one's self completely; doing and experiencing inwardly; deepening the personal involvement and significance of actions; improvisation and exercises for perception, self-awareness and justification.

I 1007 123
ACTING II 3.0
 Extension of the actor's self into characterization; learning to physicalize (or externalize) the psychological elements and characters so that they are projected to an audience. Script analysis, in which the student develops the discipline of using clues in the script to fulfill the author's intentions. Work on scenes, applying the foregoing techniques.
Prerequisite: I 1007 122.

I 1007 150
TECHNICAL THEATRE I 3.0
 The production concept from the designer's approach through a correlation of related arts to the final production; emphasis on correlation of scenic and lighting designs.

I 1007 201
THEATRE PRACTICUM I 1.0
 On or off stage experience in departmental productions. May be repeated.

I 1007 202
THEATRE PRACTICUM II 1.0
 Continuation of 1007 201. May be repeated.

I 1007 203
THEATRE PRACTICUM III 1.0
 Continuation of 1007 202. May be repeated.

I 1007 208
PLAY SCRIPT INTERPRETATION 3.0
 An evaluation of the playscript in terms of the literary, technical, and production elements essential to mounting the script for performance; a consideration of both the fictional and the functional elements of playscripts.

I 1007 210
THEATRE HISTORY: CLASSICAL TO ELIZABETHAN 3.0
 The development of the theatre from the classical Greek through the Elizabethan period; attention to plays, playwrights, theater architecture, scenery, costuming, styles of acting and presentations. Oral reports, lectures and demonstrations.

I 1007 211
THEATRE HISTORY: RESTORATION TO MODERN 3.0
 The development of the theatre from the restoration through the modern period; attention to plays, playwrights, theater architecture, scenery, costuming, styles of acting and presentations of the period. Oral reports, lectures and demonstrations.

I 1007 222
ACTING III 3.0
 Strengthening the actor's controls and extending his boundaries. More challenging roles; period plays and the problem of style.
Prerequisites: I 1007 123 or instructor's permission.

I 1007 223
ACTING IV (CHARACTER) 3.0
 Extending the range of characterization by modifying and controlling physical and vocal characteristics, and by studying how clothing, manners and modes of other periods affect behavior. Exercises in animal and object controls and in using adjustments; application in scenes.
Prerequisite: I 1007 222.

I 1007 234
HISTORY OF DECOR 3.0
 The major architectural and decorative periods of the world and their influences and role in the theatre as applied to the designer.

I 1007 242
DRAWING AND RENDERING TECHNIQUES FOR THEATRE 2.0
 Drafting techniques for theatrical designs: basic projective techniques, color harmony and perspective. Preparation for Technical Theatre II or theatrical design for students without prior experience.

I 1007 245
DRAFTING FOR THE THEATRE 3.0
 Techniques in theatrical drafting that explore the mechanics of drafting through the solution of practical problems in floor planning, front and rear elevations; the use of different building techniques, materials and structures.
Prerequisite: I 1007 150.

I 1007 250
TECHNICAL THEATRE II 3.0
 The methods of realizing theatrical design including construction, scene painting and the use of theatrical and plant lighting.
Prerequisite: I 1007 150 or instructor's permission.

I 1007 278
STAGE MAKEUP 2.0
 Makeup materials and their uses; creating corrective and character makeup, mustaches and beards for a cast. Research or creative experience to compile a practical resource file.

I 1007 322			
ACTING V (STYLES)	3.0		
Emphasis upon movement, decorum, costuming, and the theatrical environment of each major period of theatre history. Scene study for each period of theatre history. Special lectures by costuming and movement specialists.			
<i>Prerequisite: I 1007 223.</i>			
I 1007 323			
VOICE FOR THE PERFORMER	2.0		
The voice skills necessary for the actor. Intensive work directed toward classic and modern styles in stage diction.			
<i>Prerequisites: I 1007 122, I 1506 103.</i>			
I 1007 324			
THE PROFESSION OF ACTING (ACTING VI)	3.0		
Consideration of the artistic and commercial demands of the professional theatre and preparation to meet those demands.			
<i>Prerequisite: Junior or senior theatre major.</i>			
I 1007 330			
PLAY DIRECTION I	3.0		
Principles of direction, selection and casting; exercises in composition and movement; scenes directed for class criticism; preparation of prompt book.			
<i>Prerequisites: I 1007 122, 150.</i>			
I 1007 340			
THEATRICAL DESIGN	3.0		
Visual design in the theatrical medium; execution of actual designs stressing originality within given stylistic concepts.			
<i>Prerequisite: I 1007 150 or instructor's permission.</i>			
I 1007 345			
STAGE DESIGN	3.0		
Stage design for the theatre. Students design scenery for realistic and non-realistic drama styles receiving experience in various styles of rendering, model making, artistic and technical principles of design.			
<i>Prerequisites: I 1007 242, 340.</i>			
I 1007 361			
DRAMATIC LITERATURE	3.0		
Dramatic literature from the classical to the modern in terms of genre, theme, and performance potential; dramatic literature as it reflects its time.			
I 1007 365			
STAGE TECHNIQUE AND DANCE	1.0		
Dance encountered in period plays including the Galliard, Pavané, Minuet and other Elizabethan, Jacobean, Georgian and 19th century dances (generally offered as one of three modules with 1007 366 and 367).			
<i>Prerequisite: I 1007 222.</i>			
I 1007 366			
STAGE TECHNIQUE COMBAT	1.0		
Stage use of sword-play, hand-to-hand combat and combat choreography with broadsword, epee, cudgel and staff among others (generally offered as one of three modules with I 1007 365 and 367).			
<i>Prerequisite: I 1007 222.</i>			
I 1007 367			
STAGE TECHNIQUE: MIME	1.0		
Fundamentals of the art of classic mime including basic body controls and movements (generally offered as one of three modules with I 1007 365 and 366).			
<i>Prerequisite: I 1007 222.</i>			
I 1007 370			
COSTUME CONSTRUCTION	3.0		
Constructing costumes and accessories for the stage; techniques of cutting and sewing clothing; selection of fabrics in terms of weight, texture, color and drape. Lecture and workshop.			
I 1007 371			
HISTORY OF COSTUMES	3.0		
The evolution of costume and the development of tailoring; social, economic and political influences on silhouette and ornamentation. For advanced students of costume design and construction.			
<i>Prerequisite: I 1007 372.</i>			
I 1007 372			
INTRODUCTION TO COSTUMING FOR THE STAGE	3.0		
Physical and aesthetic requirements of the actor, director and designer; the history of clothing and the application to stage costumes. Construction projects, lecture and discussion.			
I 1007 381			
THEATRE ADMINISTRATION AND AUDIENCE DEVELOPMENT	3.0		
Initiation, development and continuing operation of the theatrical enterprise including methods of finance, budget and contract and methods of audience research and development.			
<i>Prerequisites: I 1007 100, 122, 150.</i>			
I 1007 391			
PLAYWRITING	3.0		
The creation of an original script suitable for production. The cause to effect play will be investigated as well as newer trends in theatre. Investigation of marketing possibilities and the preparation of scripts for submission. Students should have a background in the technique and artistic aspects of the theatre.			
I 1007 403			
INDEPENDENT STUDY	1.0-3.0		
Proposals must be submitted for departmental approval prior to registration for the course.			
I 1007 407			
SUMMER THEATRE PRODUCTION: TECHNICAL	1.0-7.0		
Practical experience as a member of a professional, semi-professional or educational theatre on or off campus; work as a technician or as an assistant to the designer or producer.			
<i>Prerequisite: Departmental approval.</i>			
I 1007 408			
THEATRICAL EXPERIENCE: THE INFORMED AUDIENCE	3.0		
Attendance at a series of live performances on and/or off campus after preliminary investigation and discussion with the group leader; follow-up in-person sessions with the play's production team permits an examination of the several talents, methods and contributions of the playwright, director, designer, actor, technician and producer. Designed for both the casual theater-goer and the Theatre major.			
I 1007 409			
SUMMER THEATRE PRODUCTION: ACTING	1.0-7.0		
Practical experience as a member of a professional, semi-professional, or educational theatre on or off campus. The student works as an actor or as an assistant to the director, designer or producer.			
<i>Prerequisite: Department approval.</i>			
I 1007 410			
SEMINAR IN DRAMA	3.0		
Dramatic theory as it relates to production and performance. A series of research projects selected by the instructor to guide students in applying contemporary principles of play production to styles of performance; comprehensive and intensive study of playscripts and dramatic theories as they find expression in performance.			
<i>Prerequisite: I 1007 361.</i>			

- I 1007 411**
DRAMATIC CRITICISM 3.0
 Dramatic principles of theme, content, and characterization as they relate to production and performance; evaluation and analysis of the basic ingredients of dramatic criticism as related to the critic, the director, the scenic artist and the performer.
Prerequisite: I 1007 361.
- I 1007 430**
PLAY DIRECTION II 3.0
 Advanced play direction with emphasis on the director's analysis of the script and working with performers. Each participant will direct a variety of scenes and a one act play.
Prerequisites: I 1007 123, 330.
- I 1007 431**
PLAY DIRECTION III 3.0
 Exploration of significant styles of production. Each participant will direct scenes in various period styles. A final stylistic project performed for an audience.
Prerequisites: I 1007 222, 430.
- I 1007 433**
SHAKESPEARE WORKSHOP 3.0
 Analysis and performance of scenes from Shakespearean histories, comedies, and tragedies.
Prerequisites: I 1007 223, 330.
- I 1007 435**
DRAMATIC WORKSHOP 3.0
 An advanced course combining students as actors or directors engaged in research and performance of classical and contemporary styles of theatre in a works-in-progress atmosphere. Material will be drawn from the full spectrum of theatre.
Prerequisite: Two courses in directing and/or acting.
- I 1007 436**
DRAMATIC WORKSHOP II 3.0
 A continuation of dramatic workshop providing advanced research, exploration and performance for acting-directing experimentation with various modes such as readers' theatre, story theatre and environmental theatre. Problems of adaptation of plays of one period into other periods and of non-theatrical material into a theatrical form.
Prerequisite: I 1007 435.
- I 1007 445**
ADVANCED STAGE DESIGN 3.0
 Advanced scene design skills with particular attention to design in non-proscenium production.
Prerequisites: I 1007 150, 242.
- I 1007 455**
FUNDAMENTALS OF STAGE LIGHTING 3.0
 The functions of light on stage; the use of lighting equipment. Laboratory work done in the Memorial Auditorium.
- I 1008 105**
DANCE APPRECIATION 3.0
 Designed to inform the student about dance as a performing art form. Focus is on dance performance. The course includes: lectures, discussion, selected readings, viewing films, video tapes, and live performances as well as some experimental movement sessions.
- I 1008 110**
MOVEMENT ANALYSIS 3.0
 Basic body mechanics and dance movements; emphasis on freeing the body from unnecessary tension, and on muscle awareness, postural alignment, and relaxation.
- I 1008 141**
MODERN DANCE TECHNIQUE BEGINNING I 2.0
 Introduction to modern dance. Techniques and composition; developmental exercises; the relationship to movement and sound and space patterns.
- I 1008 142**
MODERN DANCE TECHNIQUE BEGINNING II 2.0
 Continuation of I 1008 141.
Prerequisite: I 1008 141.
- I 1008 143**
MODERN DANCE TECHNIQUE BEGINNING I (EXTENDED) 2.0
 Designed for the student who has completed I 1008 141 but needs more skill development before proceeding to I 1008 142.
Prerequisites: I 1008 141, instructor's permission.
- I 1008 144**
MODERN DANCE TECHNIQUE BEGINNING II (EXTENDED) 2.0
 Designed for the student who has completed I 1008 142 but needs more skill development before proceeding to I 1008 241.
Prerequisites: I 1008 142; instructor's permission.
- I 1008 161**
CHOREOGRAPHY BEGINNING 2.0
 Dance choreography in the traditional idiom with emphasis on the elements of dance composition.
- I 1008 205**
RHYTHMIC ANALYSIS FOR DANCE 2.0
 All basic rhythmic structures (basic note values, meter, etc.) covered and immediately applied to movement; games, notational assignments, and choreographic studies used to create understanding of the inherent rhythm within all basic dance movement.
Prerequisites: I 1008 141, majors only.
- I 1008 210**
HISTORY OF DANCE 3.0
 Dance as it has developed from primitive religious and ritualistic movement to its contemporary place in society.
- I 1008 230**
CREATIVE DANCE FOR CHILDREN 2.0
 Teaching materials, movement exercises and games; simple folk and singing games and percussion activities for teaching creative movement and rhythmic activities to children.
Prerequisites: I 1008 142, 161.
- I 1008 240**
MODERN DANCE 1.0
 An introduction to the techniques and composition of modern dance; developmental exercises, the relationship of movement and sound patterns, group improvisation as a means of approaching dance composition.
- I 1008 241**
MODERN DANCE TECHNIQUE INTERMEDIATE I 2.0
 A wide range of movement techniques and dance form styles. Style and personality. Group improvisations as approaches to dance composition.
Prerequisite: I 1008 142.
- I 1008 242**
MODERN DANCE TECHNIQUE INTERMEDIATE II 2.0
 Continuation of I 1008 241.
Prerequisite: I 1008 241.

I 1008 244			
MODERN DANCE TECHNIQUE INTERMEDIATE II (EXTENDED)	2.0		
Designed for the student who has completed I 1008 242 but needs more skill development before proceeding to I 1008 441.			
<i>Prerequisites: I 1008 242; instructor's permission.</i>			
I 1008 253			
DANCE TECHNIQUE JAZZ I	2.0		
An introduction to jazz technique; emphasis on style and the rhythmic aspects of jazz as a performing art.			
<i>Prerequisite: 2 semester hours of modern dance.</i>			
I 1008 254			
DANCE TECHNIQUE JAZZ II	2.0		
A continuation of I 1008 253.			
<i>Prerequisite: I 1008 253.</i>			
I 1008 261			
DANCE CHOREOGRAPHY II	2.0		
Dance choreography with emphasis on small group works and solos.			
<i>Prerequisite: I 1008 161.</i>			
I 1008 265			
DANCE IMPROVISATION	2.0		
Basic skills and problems in dance improvisation. No previous improvisational experience necessary. May be taken by a dancer at any technical level, but must be taken in conjunction with a modern dance course.			
I 1008 280			
DANCE PRACTICUM	1.0		
Practical work in dance production. Dancing, assisting, directing, accompanying, working on technical or house crew. Credit only for working through the entire production period. Work must be completed and report filed prior to registration in the course. May be taken more than once.			
<i>Prerequisite: Instructor's permission.</i>			
I 1008 325			
METHODS AND MATERIALS FOR TEACHING DANCE	2.0		
Theory, methods and materials for the teaching of dance and movement, pre-school through high school; lesson planning, unit planning and curriculum development.			
<i>Prerequisites: I 1008 161, 242.</i>			
I 1008 345			
DANCE TECHNIQUE: ETHNIC	2.0		
The distinctive techniques customarily related to specific racial and cultural groups. The groups studies will vary from semester to semester. May be taken more than once.			
I 1008 351			
DANCE TECHNIQUE BALLET I	2.0		
An introduction to ballet technique.			
<i>Prerequisite: 4 semester hours of modern dance or instructor's permission.</i>			
I 1008 352			
DANCE TECHNIQUE BALLET II	2.0		
A continuation of I 1008 351.			
<i>Prerequisites: I 1008 351; instructor's permission.</i>			
I 1008 353			
DANCE TECHNIQUE BALLET III	2.0		
Advanced technique forms with presentations by authorities from various ballet schools.			
<i>Prerequisites: I 1008 352; instructor's permission.</i>			
I 1008 357			
DANCE TECHNIQUE BALLET IV	2.0		
Advanced ballet technique with emphasis on individualized placement, continuation of work with intricate, technically difficult sequences, continuation of emphasis on musicality, line, dynamics, and stylistic refinement.			
<i>Prerequisite: Ballet I-III or permission of instructor.</i>			
I 1008 403			
INDEPENDENT STUDY	1.0-3.0		
Proposals must be submitted for departmental approval prior to registration for the course.			
I 1008 435			
SPECIALIZED DANCE ACTIVITY	1.0-3.0		
Credit is given for supervision in specialized dance activity. Consent of department chairperson is required. Credit by arrangement.			
I 1008 441			
MODERN DANCE TECHNIQUE ADVANCED I	2.0		
Advanced dance forms with presentations by authorities from the Graham and Nikolais schools among others.			
<i>Prerequisite: 6 semester hours of modern dance. By audition only.</i>			
I 1008 442			
MODERN DANCE TECHNIQUE ADVANCED II	2.0		
A continuation of I 1008 441. By auditions only.			
I 1008 473			
DANCE THERAPY	2.0		
Dance as therapy; reaching the emotionally disturbed or tense child on a non-verbal level; relaxation through dance experiences.			
<i>Prerequisite: Instructor's permission.</i>			
I 1008 480			
DANCE PRODUCTION	2.0-3.0		
Responsibilities of the dancer, choreographer, artistic director, musician and technician in dance production. Practical group experience.			
<i>Prerequisites: I 1008 161, course in similar field.</i>			
I 1008 485			
DANCE REPERTORY	3.0-7.0		
Dancing, choreographing, or providing technical assistance for a repertory company. Normally involves a touring company both within and outside the state for an extended period of time. More than one semester of work may be involved. By audition only.			
I 1008 403			
INDEPENDENT STUDY	1.0-3.0		
Proposals must be submitted for departmental approval prior to registration for the course.			
I 1099 100			
INTRODUCTION TO THE FINE AND PERFORMING ARTS	3.0		
Examination through study and experience of esthetic and practical considerations in theatre, music and the visual arts. Problems of form, style, media and meaning. Team taught.			
I 1099 450			
INTRODUCTION TO PERFORMING ARTS MANAGEMENT I	3.0		
Structures of performing arts organizations in the U.S.			
<i>Prerequisites: 9 semester hours in arts appreciation or applied work; demonstrated interest in the arts; instructor or department permission.</i>			

- I 1099 451
INTRODUCTION TO PERFORMING ARTS
MANAGEMENT II 3.0
Problems and theories of arts management for performing groups in the U.S.; marketing, production, fund-raising and other aspects of operation.
Prerequisites: Introduction to Performing Arts Management I or instructor's permission.
- I 1099 460
INTERNSHIP IN PERFORMING ARTS
MANAGEMENT I 4.0
Field work, 2 days per week (or the equivalent) in a professional situation. On-the-job training in day-to-day operations of a performing arts organization. Students will participate in all facets of production, observe decision-making activities. Registrants must drive and provide own transportation.
Prerequisites: Introduction to Performing Arts Management I, II, permission of sponsor, permission of department chairperson, 1 semester of psychology.
- I 1099 461
INTERNSHIP IN PERFORMING ARTS
MANAGEMENT II 4.0
Continuation of internship in Performing Arts Management I. Registrants must drive and provide own transportation.
Prerequisites: Internship I, permission of sponsor, permission of department.
- I 1099 462
INTERNSHIP IN PERFORMING ARTS
MANAGEMENT III 1.0
Full semester's internship in performing arts organization with time allocation mutually decided by the sponsor and the student's major department. Interns must be able to drive and to provide own transportation.
Prerequisites: Internship in Performing Arts Management I, II, permission of sponsor, permission of major department.
- I 1099 470
EXTERNSHIP IN PERFORMING ARTS
MANAGEMENT 1.0-15.0
Management of an arts organization arranged in cooperation with the major department and umbrella organizations. Credit to be arranged.
Prerequisites: Introduction to Performing Arts Management I, II, two semesters of internship, permission of sponsor(s) and major department.
- I 1506 100
FUNDAMENTALS OF SPEECH: TEACHER
CERTIFICATION 3.0
Practical opportunities in a variety of speaking situations with special emphasis on teaching oriented activities; emphasis on organizing and clarifying ideas, critical listening skills, development of poise and confidence and effect in communication. Speech lab help as needed. Designed for students enrolled in a teacher certification program.
- I 1506 101
FUNDAMENTALS OF SPEECH: COMMUNICATIONS
REQUIREMENT 3.0
Practical opportunities in a variety of speaking situations. Emphasis on skills, development of poise and confidence and effective communication. Distracting elements in voice or articulation considered, with additional work as needed in the Speech Laboratory. Satisfies the communication requirement.
- I 1506 102
BASIC SPEECH SKILLS 3.0
Basic skills training in the effective oral communication of ideas and feelings. Developmental skills stressed. Speech Lab provided as needed. Satisfies the communication requirement. Admission by departmental approval only.
- I 1506 103
VOICE AND SPEECH IMPROVEMENT 3.0
Development of voice and speech techniques and elimination of faults; procedures for improving voice and speech patterns. For speech and theatre majors and minors, others by consent of the instructor.
- I 1506 104
PHONETIC STUDY OF SPEECH SOUND 3.0
The manner and place of articulation heard in American English; use of international phonetic alphabet to transcribe speech both prescriptively and descriptively from live and recorded voices; intonation and stress patterns of spoken English.
- I 1506 105
VOICE AND SPEECH IMPROVEMENT FOR STUDENTS
WITH FOREIGN SPEECH PATTERNS I 3.0
Voice and speech problems; comparative phonetic analysis of other languages, noting intonation and inflectional differences; evaluation of progressive speaking and reading skills. For students requiring intensive training in English as a second language.
- I 1506 106
VOICE AND SPEECH IMPROVEMENT FOR STUDENTS
WITH FOREIGN PATTERNS II 3.0
A continuation of I 1506 106.
Prerequisite: I 1506 105.
- I 1506 160
ORAL INTERPRETATION OF LITERATURE 3.0
Classroom performances of oral interpretation of various forms of literature followed by informal critiques and the development of a repertory.
- I 1506 233
ORAL INTERPRETATION OF POETRY 3.0
Performance styles of interpretation of poetry as they are related to theatre; a survey of selected types of poetry (epic, sonnet, lyric for example) and the accompanying performance style (reader's theatre, improvisation, mime, dance for example) necessary to recreate the selected author, tone and mood.
Prerequisites: I 1506 160, majors only.
- I 1506 234
FUNDAMENTALS OF PUBLIC SPEAKING 3.0
Preparing and delivery of effective, informative, persuasive and entertaining speeches; addressing the class; entering into formal critiques and moderating one program.
- I 1506 235
ORAL INTERPRETATION OF DRAMA 3.0
Performance of selected playscripts employing the techniques of the oral interpreter and the actor; analysis of playscripts and scene study as applied to developing character and movement.
Prerequisite: I 1506 160 or instructor's permission.
- I 1506 271
INTERPERSONAL COMMUNICATION I 3.0
Basic theory of interpersonal communication and its practical applications in one-to-one and small group communication situations; personal communication patterns as they affect self-perception and the perception of others.
- I 1506 272
INTERPERSONAL COMMUNICATION II 3.0
Current literature in the field of interpersonal communication and the relationship of the theory to communication experiences both in and out of class.
Prerequisite: I 1506 271.

I 1506 302
PRACTICUM IN SPEECH IMPROVEMENT 3.0
 Evaluation, etiology and remedial techniques for minor voice and diction problems common to a general school population; self motivating materials for junior high and high school. For all Speech and Theatre majors planning to teach. Three class hours, one hour for observation and practice.
Prerequisites: I 1506 103, I 1506 104, I 1506 160, I 1506 234.

I 1506 334
CONTEMPORARY PUBLIC ADDRESS 3.0
 Contemporary styles of speaking relating to current issues and events; primary focus on television, radio styles of announcing; work to develop flexibility in using the various styles.

I 1506 363
READER'S THEATRE 3.0
 The close union of interpretation of literature and theatre; adaptation and editing of the various genres of literature; participation in public performances of reader's theatre.
Prerequisites: I 1506 160, I 1007 122.

I 1506 364
ADVANCED READER'S THEATRE 3.0
 Principles of reader's theatre for public performance; intensive application of performance technique related to the interpretation of prose, poetry and the novel.
Prerequisite: I 1506 363.

I 1506 374
GROUP PROCESSES 3.0
 The affective domain of a group's function; variable like cohesiveness, blocking behavior, withdrawal, etc., as related to the development and maintenance of productive interaction.
Prerequisite: I 1506 271.

I 1506 375
NON-VERBAL COMMUNICATION 3.0
 Non-linguistic system and the communication experience. Effects of non-verbal aspects (physical behavior, spatial relationships, context, environment, etc.) upon the sending and receiving of verbal messages.
Prerequisites: I 1007 122, I 1506 374.

I 1506 402
ADVANCED SPEECH PRACTICUM 2.0
 More intensive, supervised practice in the improvement of voice and speech patterns in the college speech laboratory and with foreign student practice groups. Two hours of lab and one hour of seminar each week.
Prerequisites: I 1506 302 and instructor's permission.

I 1506 403
INDEPENDENT STUDY 1.0-3.0
 The proposals must be submitted for departmental approval prior to registration for the course.

I 1506 407
METHODS OF TEACHING SPEECH AND THEATRE 3.0
 Speech education at each grade level; approaches, problems, materials, textbooks and techniques; trends in instruction; integration of speech with other fields.
Prerequisites: Instructor's permission, majors only.

I 1506 435
SPEECH ARTS ACTIVITY 1.0-3.0
 Credit is given for supervised speech arts activity. Consent of department chairperson required. Credit by arrangement.

I 1506 438
SEMINAR IN PERSUASION AND SOCIAL CONTROL 3.0
 Uses and applications of persuasion in various fields of social activity; mass media in education, business, religion and politics.
Prerequisite: I 1506 234.

I 1506 441
GROUP DISCUSSION AND LEADERSHIP 3.0
 Principles of small group discussion with a task-problem solving orientation. Leading and participating in private and public discussions; introduction to parliamentary procedure.

I 1506 442
ARGUMENTATION AND DEBATE 3.0
 Principles of argumentation; characteristics of propositions, definitions of terms, logical organization, evidence, research and oral techniques, structure of tournament debating. Practice in argumentation and debate of current significant issues.

I 1506 478
SEMINAR IN COMMUNICATION THEORY 3.0
 A synthesis of communication theory design to present a unified perspective of the discipline.
Prerequisite: Senior communication theory students only; instructor's permission.

OTHER ACADEMIC PROGRAMS

General Humanities

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Coordinator: Timothy T. Renner

Humanistic studies are concerned with the critical and expressive awareness of the meaning of human experience, and the many ways in which mankind has seen itself in the past and sees itself today. Among social, scientific, philosophical and religious studies, in literary and artistic expression, the humanities seek the common awareness of the human problem and the varying attempts at its solution.

The major in General Humanities is recommended for students who have a broad interest in liberal arts. The major begins with two introductory courses, General Humanities I and II, which together offer an overview of important themes, periods, subject areas, and modes of inquiry within the humanities. Next, the student takes a series of selected courses in five of the traditional humanistic disciplines. At this stage, the student, in consultation with a faculty advisor, identifies a special topic which will be the subject of the senior thesis or other project and plans a portion of the courses taken within the various disciplines, so as to include four, which make up a concentration centering around the topic of interest. Finally, the student prepares senior thesis or other project.

Required Courses

	Semester	Hours
4903 201, 202	General Humanities I, II	6
4903 499	Senior Humanities Seminar	4
	(to accompany writing of senior thesis)	4

Electives (Major)

Students will take a total of 24 semester hours in selected courses in the five areas listed (detailed lists of appropriate courses within each area may be obtained from the faculty advisor). Four courses out of the total eight will be carefully chosen so as to provide the student with background on a humanistic topic which is interdisciplinary in nature and which will be the subject of the senior essay.

- a. History: One course from two of the following groups:
 (1) Earlier Western
 (2) Later Western
 (3) Non-Western
 total 6
- b. Philosophy and Religious Studies: One course from each group:
 (1) Philosophy
 (2) Religious Studies
 total 6
- c. Literature: One course from each group:
 (1) Comparative Literature
 (2) National Literature
 total 6
- d. Art History: One course 3
- e. Music History: One course 3

Courses of Instruction

K 4903 201 3.0
GENERAL HUMANITIES I (to 1400)
 A broadly historical introduction to important themes and topics in the humanities as seen through literature, philosophy, and the arts from the ancient world to the Middle Ages.

K 4903 202 3.0
GENERAL HUMANITIES II (from 1400)
 A broadly historical introduction to important themes and topics in the humanities as seen through literature, philosophy, and the arts from Renaissance to the present.

K 4903 480 1.0-4.0
INDEPENDENT STUDY IN GENERAL HUMANITIES
 Directed independent study and research in general humanities. May be elected in lieu of K 4903 499, senior humanities seminar, in years when the seminar is not being offered.
Prerequisite: Permission of the program coordinator.

K 4903 499 4.0
SENIOR HUMANITIES SEMINAR
 A seminar for majors. The student will develop, in a senior thesis or other creative project, an interdisciplinary approach to an idea or problem arising from the concentration.
Prerequisite: Senior standing as a General Humanities major.

Legal Studies

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Director: Marilyn R. Frankenthaler

Legal Studies is unified in terms of the broad discipline and also overall ultimate career objectives. The Center for Legal Studies provides a cohesive structure which preserves the interdisciplinary nature of the legal field. The thrust of the Center is threefold:

- To unify the Paralegal and Pre-Law Programs into a single resource unit for students interested in the legal field,
- To provide appropriate counseling and information for students,
- To represent Montclair State College's leadership role in undergraduate legal studies in relation to law schools, the organized bar, and the general public through activities such as conferences, research and consultation projects.

In the essential process of advisement, Dr. Carl Gottschall serves as Mathematics, Computer Science and Patent Coordinator. Dr. Lucinda Long, the College Pre-Law Advisor, is available to provide information to students regarding law school admission. Additionally, advisors representing every department at the College counsel Pre-Law students regarding the best course of study within any major for students planning a career in law.

The Center for Legal Studies affords Montclair State College students the dual possibilities of an applied career in law as a paralegal or preparation for an ultimate career as an attorney. Both the Paralegal and Pre-Law Programs are minors which may be combined with many diverse majors on campus.

PARALEGAL STUDIES PROGRAM (24 semester hours)

The Paralegal Studies Minor offers the student a balanced and varied background in the legal fundamentals, appropriate skills, and practical field work experience necessary for work as a legal assistant. Paralegal Studies develops intellectual and analytical skills, trains students for direct employment opportunities in the legal assistant field, and provides supplemental career possibilities in combination with a student's major.

The Montclair State College Paralegal Studies Program is the first and only program at a four-year college in the State of New Jersey to receive American Bar Association approval.

There are three possible courses of study within the Montclair State College Paralegal Studies Program: General Law Practice, a Hispanic Specialization for bilingual students, and a Patent, Trademark and Copyright Law Specialization.

General Law Practice

Course of Study	Semester Hours
1402 220 Introduction to Paralegalism	3
1402 230 Fundamentals of Legal Research	3
1402 221 Civil Litigation	3
Choice of 2 of the following	6
1402 301 Domestic Relations	3
1402 302 Real Estate Law	3
1402 303 Wills, Trusts, and Probate Law	3
1402 304 Corporations and Partnerships	3
1402 305 Personal Injury Law	3

Choice of 2 of the following	6
1402 306 Administrative Law	3
1402 307 Immigration Law	3
1402 310 Fundamentals of Patent, Trademark and Copyright Law	3
1402 331 Advanced Legal Research	3
1402 340 Computer Fundamentals for Paralegals	3
2207 321 Law in Society: Criminal Law (Political Science)	3
0501 261 Legal Environment of Business I (Accounting, Law, and Taxation)	3
1402 325 Seminar and Internship in Law	3
Total Semester Hours for Program	24
Optional Internship	
1402 326 Seminar and Internship in Law II: Cooperative Education	4 or 8

Specializations

Students completing the HISPANIC SPECIALIZATION must include the following legal specialty course:

1402 316 Skills for Bilingual Legal Personnel	3
In lieu of a second specialty course, Hispanic Specialization students may include:	
1105 360 Hispanic Community Program Internship in Law (Spanish Department)	3

Students completing the PATENT, TRADEMARK and COPYRIGHT SPECIALIZATION must take the following legal specialty courses:

1402 310 Fundamentals of Patent, Trademark and Copyright Law	3
1402 311 Patent, Trademark and Copyright Law Practice and Procedure	3

PRE-LAW STUDIES PROGRAM (18 semester hours)

The Pre-Law Studies Minor at Montclair State College is an interdisciplinary program designed to enhance the preparation of students planning to seek admission to law school by promoting the development of analytical and critical writing, reading, and thinking. The program offers students a balanced and varied background, enriching the student's academic major, in the acquisition of skills essential for success in the field of law.

Course of Study

ESSENTIAL SKILLS

Select 2 courses from this group (6 semester hours):

Department/Course Title	
English: Advanced Expository Writing	
Legal Studies: Fundamentals of Legal Research	
Classics: English Vocabulary: Classical Roots	
Speech and Theatre: Public Speaking	
Linguistics: Language of the Law	

Select 2 courses from this group (6 semester hours):

Philosophy and Religion: Logic	
Philosophy and Religion: Critical Reasoning and Argument	
Mathematics and Computer Science: Statistics	
Mathematics and Computer Science: Mathematical Reasoning and Legal Problem Analysis	
Speech and Theatre: Argumentation and Debate	

BACKGROUND COURSES

Select 1 course from this group (3 semester hours):

History: Selected Topics: American History to 1876 or since 1876	
Political Science: Institutions of American Government	
Political Science: Constitutional Law: The Federal System	
Philosophy and Religion: Philosophy of Law	

Select 1 course from this group (3 semester hours):

Business Education: Contemporary Business	
Economics: Principles of Economics: Macro	
Accounting, Law and Taxation: Accounting for Non-Business Majors	
Total Semester Hours for Program	18

Courses of Instruction

Q 1402 220

INTRODUCTION TO PARALEGALISM

3.0

An introduction to certain basic areas of the law, to the legal process, and to the legal system, particularly as it operates in the State of New Jersey. The roles of the lawyer and the paralegal within the legal system. Familiarization with ethical considerations and specific paralegal skills in the areas of interviewing, investigation, and advocacy.

Q 1402 221

CIVIL LITIGATION

3.0

The terminology of civil law. Substantive and procedural principles relating to all stages of a civil law suit from commencement to judgment, particularly as applied to New Jersey Civil Practice Rules. Drafting of pleadings, motions, and other documents in a civil law suit. Trial and appellate procedures.

Prerequisite or corequisite: Q 1402 220.

Q 1402 230

FUNDAMENTALS OF LEGAL RESEARCH

3.0

Fundamental principles and methods of legal research. The use of a law library, case law, statutory law, and other sources. The application of the tools of legal research to case analysis, digesting legal opinions, and writing a law office memorandum. No freshmen.

Q 1402 301

DOMESTIC RELATIONS LAW

3.0

Basic concepts and scope of domestic relations law and family law practice. Familiarization with forms and procedures to train the legal assistant in this area. Ante-nuptial agreements, formal ties of marriage, separation agreements, divorce.

Prerequisites: Q 1402 220, 221, 230.

Q 1402 302

REAL ESTATE LAW

3.0

Principles of real estate law and transactions to train the legal assistant in this area of practice. Conveyances of real property from the standpoint of seller and purchaser. Landlord-tenant relations.

Prerequisites: Q 1402 220, 221.

Q 1402 303

WILLS, TRUSTS, AND PROBATE LAW

3.0

Basic concepts, practice, and procedure in wills, probate, and trusts. Will drafting, estate planning, probate procedures, and estate administration. Forms and questionnaires utilized by paralegals in these areas.

Prerequisites: Q 1402 220, 221.

Q 1402 304

CORPORATIONS AND PARTNERSHIPS

3.0

Legal characteristics and tax aspects related to sole proprietorship, partnership, limited partnership, and corporation. Formation, operation, and dissolution of the corporate entity. Drafting of legal forms utilized by paralegals in these areas.

Prerequisites: Q 1402 220, 221, 230.

Q 1402 305

PERSONAL INJURY LAW

3.0

Legal concepts and terminology of personal injury law, both substantive and procedural. Drafting of pleadings and other documents utilized by paralegals in personal injury practice. Negligence, medical malpractice, products liability.

Prerequisites: Q 1402 220, 221, 230.

Q 1402 306
ADMINISTRATIVE LAW 3.0
 Basic concepts, historical perspective, theoretical background, practice, and procedure in administrative law, agencies, and process. New Jersey administrative law system and hearing process.
Prerequisites: Q 1402 220, 221.

Q 1402 307
IMMIGRATION LAW 3.0
 Basic overview of Immigration and Nationality Act as well as historical and sociological perspective of U.S. immigration. Practice and procedure of Immigration Law as pertains to both administrative agency processing and consular processing. Visa applications, naturalization, citizenship, deportation, exclusion, asylum and refugee practice.
Prerequisites: Q 1402 220, 221.

Q 1402 310
FUNDAMENTALS OF PATENT, TRADEMARK, AND COPYRIGHT LAW 3.0
 Substantive and procedural legal foundation in these areas. Application and registration procedures. Standards of patentability. Trademark registration. Subject matter of copyrights.

Q 1402 311
PATENT, TRADEMARK, AND COPYRIGHT LAW—PRACTICE AND PROCEDURE 3.0
 Substantive and procedural principles in these areas, including practice and procedure before the U.S. Patent and Trademark Office and the U.S. Copyright Office.
Prerequisite: Q 1402 310.

Q 1402 316
SKILLS FOR BILINGUAL LEGAL PERSONNEL 3.0
 Translating, interpreting, and cultural fluency as applied to the legal field and in particular to the role of bilingual paralegals.
Prerequisite: Fluency in Spanish required.

Q 1402 325
SEMINAR AND INTERNSHIP IN LAW 3.0
 Field work experience of 90 hours in a private sector law office, corporation, bank, or public sector agency. Also includes classroom seminar.
Prerequisites: Q 1402 220, 221, 230
Prerequisites or corequisites: 2 legal specialty courses chosen from among Q 1402 301, 302, 303, 304, 305, 306, 307, 310, 311, 340 and 316, instructor's permission.

Q 1402 326
SEMINAR AND INTERNSHIP IN LAW II: COOPERATIVE EDUCATION 4.0 or 8.0
 Academic study integrated with supervised paid employment situation outside the formal classroom environment. Part-time (20 hours per week) or full-time (40 hours per week).
Prerequisites: Q 1402 220, 221, 230, 325.

Q 1402 331
ADVANCED LEGAL RESEARCH 3.0
 Students refine and perfect principles and methods of legal research, how to use a law library, and to work with statutory, case law and other sources. Students apply to practical legal problems and research techniques learned in Fundamentals of Legal Research.
Prerequisite: Q 1402 230.

Q 1402 340
COMPUTER FUNDAMENTALS FOR PARALEGALS 3.0
 An introduction to the structure of a computer, the function of programming language, computer application in the legal environment, available legal software, and legal applications of data bases.
Prerequisites: Q 1402 220, 221, 230.

Q 1499 105
PRACTICAL SPANISH FOR LEGAL PERSONNEL 3.0
 Course designed to provide personnel dealing with Hispanics in legally-related situations with a basic knowledge of the Spanish language as it relates to the performance of their jobs in assisting Hispanics whose problems vary from tenancy and divorce to welfare, social security, immigration, and the like. (Also offered for credit in the Spanish and Italian Department.)

Q 1499 290
LANGUAGE OF THE LAW 3.0
 This course introduces the student to the characteristic properties of legal English—both its linguistic structures and its social and psychological functions. The ultimate objective is to show that, depending upon how it is used, legal language can obfuscate or clarify, persuade or fail to persuade, hinder or facilitate communication. (Also offered for credit in the Linguistics Department.)

New Jersey School of Conservation

SCHOOL OF PROFESSIONAL STUDIES

Director: John J. Kirk

The New Jersey School of Conservation, the second largest environmental education center in the world, is operated for the State of New Jersey by Montclair State College through the School of Professional Studies. The 240-acre facility is located in Stokes State Forest and High Point State Park.

Through its varied programs, the School of Conservation aims to develop a reverence for life and the formation of a land ethic which will influence students for the rest of their lives.

The School's activities and facilities are designed to handle both short- and long-term learning experiences. These range from two- or three-day programs for 12,000 elementary and secondary school students to graduate courses for over 600 students of the state colleges, private colleges, and Rutgers, The State University. In addition, since the School is operationally a part of Montclair State College, an increasing number of the College's curriculum planners are looking toward creating or modifying courses to be offered for Montclair State credit through the School. The School of Conservation also conducts workshops, which earn Montclair State College graduate/undergraduate credit, for elementary and secondary school teachers and for adults interested in the teaching and learning of environmental concerns. The faculty of the School have organized and developed one-day workshops for community action organizations.

Courses of Instruction

10843 460
PRACTICUM IN ENVIRONMENTAL EDUCATION 3.0
 This course is designed to provide teachers and supervisors with a background of experience and knowledge which will enable them to organize and conduct conservation education programs in their own communities. Using an extensive library of conservation education materials, students formulate teaching units, lists of teaching aids, and projects suitable for

use in their own communities. Participating in conservation projects with the children in the demonstration camp furnishes a practical background for research and discussion (For camp staff only.)

1 0843 462
ADMINISTRATION AND SUPERVISION OF ENVIRONMENTAL FIELD STUDY 3.0
This course is designed to provide practical experience in the solution of problems in planning, supervising, and administering a field experience in environmental education. Among the phases considered are those of a historical perspective in the evolution and development of the movement combined with current practices. Discussions will include staff selection and supervision, program development, kitchen management, budgeting and financing, and general administrative procedures. (For camp staff only.)

1 0843 495
WORKSHOP ON UTILIZING NATURAL ENVIRONMENTS 1.0
To provide classroom teachers in all disciplines with experiences in using the natural environment to supplement classroom experiences. Opportunity for teachers to increase their knowledge of as well as skills in the techniques of incorporating the physical, biological, and socio-cultural components of the environment in their curricula will be emphasized through the use of small group lecture sessions held in the natural environment being described. Students are provided with the opportunity of administering and experimenting in each of four such environments out of a choice ranging from 15 to 20 specific subject areas.

1 0843 496
FIELD STUDY IN HUMANITIES AND NATURAL SCIENCE 1.0
Provides teachers in varied and diversified subject areas with an understanding of how the humanities and sciences may be taught in natural environments for the purpose of developing an environmental sensitivity.

1 0843 497
FIELD STUDIES IN SOCIAL STUDIES AND OUTDOOR RECREATION 1.0
Provides an understanding of how outdoor pursuits and social studies may be taught using natural environments to develop environmental sensitivity. Does not meet resident requirement.



Toxicology

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

Director: Rosa Mae Bradley

In our modern world we are exposed to an increasingly complex array of chemical substances. Determining the effect that these substances could have on our health and environment and the likelihood it will occur is the task of a toxicologist. The toxicologist identifies and tests chemical substances for adverse effects, then interprets and evaluates the results in terms of potential hazard or safe use. Among the areas in which toxicologists make contributions are solutions to the problems of drug use and abuse, food additive safety, safeguarding workplace exposures, and maintaining air and water purity.

The program is a joint venture of the School of Mathematical and Natural Sciences at Montclair State College and the School of Health Related Professions of the University of Medicine and Dentistry of New Jersey. Students will attend Montclair State College for three years and one summer taking instruction in chemistry, biology, mathematics, physics, introductory toxicology, and general education. The summer between the junior and senior years will be devoted to a traineeship in industry or a regulatory agency. The last two semesters of the program will be spent at the University of Medicine and Dentistry of New Jersey taking courses and clinical work in toxicology and participating in laboratory research projects related to toxicology.

The program is both demanding and long. Prospective applicants should have completed high school courses in chemistry, biology, and physics as well as four years of high school mathematics. A minimum of four academic years and two summers will be required to complete this 140-credit program. Students who successfully complete the program will receive a Bachelor of Science degree from Montclair State College as well as a certificate of completion from University of Medicine and Dentistry of New Jersey.

Toxicology Major

Required Courses

	Semester	Hours
0426 100 Introduction to Toxicology	1	1
0426 310, 311 Principles of Toxicology I, II	6	6
0426 410* Industrial Externship	4	4
0426 420* Principles of Pharmacology for the Toxicologist	4	4
0426 430* Clinical Toxicology	6	6
0426 440* Forensic Toxicology	2	2
0426 450* Pathology for Toxicologists	4	4
0426 490* Toxicology Seminar	2	2
0426 495* Research in Toxicology	6	6

*Course offered at University of Medicine and Dentistry of New Jersey

Collateral Courses

0401 140	Biology of the Cell	4
0401 131	Vertebrate Zoology	4
0401 350	Microbiology	4
0401 415	Genetics	4
0401 416	Genetics Laboratory Investigations	1
0401 442	Human Physiology	4
1905 120, 121	General Chemistry I, II	8
1905 230, 231	Organic Chemistry I, II	6
1905 232	Experimental Organic Chemistry I	2
1905 315	Environmental Chemical Analysis	3
1905 370	Biochemistry	3
1902 193, 194	College Physics I, II	8
1701 122, 221	Calculus I, II	8
1701 242	Biostatistics	3

Courses of Instruction

W 0426 100
INTRODUCTION TO TOXICOLOGY 1.0
Survey of the scope and fields of toxicology including current events, legislation, and career opportunities.

W 0426 310
PRINCIPLES OF TOXICOLOGY I 3.0
Examination of the major classes of toxic agents by identifying characteristics of their toxicity and factors which modify this outcome.

W 0426 311
PRINCIPLES OF TOXICOLOGY II 3.0
Survey of the effects of toxic agents on target organs and physiologic systems including teratology; mutagenicity; carcinogenicity; toxicity of the central nervous, musculoskeletal, reproductive, cardiovascular, hematopoietic, endocrine and immune systems; hepatic, renal and ocular toxicity.

Transcultural Studies

SCHOOL OF HUMANITIES AND
SOCIAL SCIENCES

Lois A. More: General Program Coordinator

World Cultures

Program A

The concentration in world cultures, offers opportunities to analyze generalizations regarding human behavior and to examine universal aspects of social institutions that transcend boundaries of culture areas. The program prepares students to teach world cultures in junior and senior high schools. As a liberal arts major, it is preparatory to graduate specialization in cultural anthropology, geography or history, as well as careers in business, museums, government or private agencies whose focus is the non-West.

Core Requirements 9

J 2102 100	Cultural Anthropology
N 2206 101	Cultural Geography
P 2205 200	The Study of History

Unit Requirements 12

Choose two units:

Section two

J 2202 307	Ethnology of Southeast Asia & Oceania
N 2206 305	Geography of East and Southeast Asia
P 2205 132	Introduction to Chinese Civilization
P 2205 133	Modern Chinese Civilization
Select two	
N 2206 306	Geography of South Asia
P 2205 131	Introduction to Indian Civilization
Select two	
J 2202 301	Peoples of Africa
N 2206 412	Geography of Sub-Sahara Africa
P 2205 108	Introduction to African Civilization
Select two	
J 2202 304	Peoples of the Soviet Union
N 2206 419	Geography of the Soviet Union
P 2205 323	History of Russia to 1917
Select two	
J 2202 302	Native Latin Americans
N 2206 308	Land and Life in Latin America
P 2205 114	Early Latin American Civilization
P 2205 116	Modern Latin American Civilization
Select two	
N 2206 413	Geography of the Middle East
P 2205 109	Introduction to Islamic Civilization
J 2202 310	Cultures of the Middle East

Electives 12

J 2202 202	Culture Change & Modernization
J 2202 405	Psychological Anthropology
J 2202 312	Peasant Culture
J 2202 204	Anthropology of Religion
J 2202 203	Anthropological Linguistics
P 2205 461	Cultural History of Primitive Societies
P 2205 330	Chinese Social History Through Literature
P 2205 431	Development of Indian Character and Culture
P 2205 432	Development of Japanese Character and Culture
N 2206 421	Population Problems of the World
N 2206 423	Culture and Resource Utilization
J 2202 412	Cultural Ecology
J 2202 415	Women in Traditional Society
	Independent Transcultural Study

REQUIRED TOTAL 33

Asian Studies

Program B

Asian Studies, a program in the social sciences and humanities, introduces the classical Asian civilizations and their modern transformations. The program offers regional studies in South or East Asia. Students prepare for Asian graduate study and careers in journalism, government, and international business or private agencies whose focus is Asian.

Requirements

	Semester Hours
Introduction-Mode of Inquiry	3
Requirement: P 2205 200 The Study of History	
Interdisciplinary Regional Concentration	12
(One regional concentration)	
A. East Asia	
Requirement	
P 2205 132 Introduction to Chinese Civilization	3
Electives (3 courses in 3 disciplines)	9
N 2206 305 Geography of East and Southeast Asia	
S 2207 403 Government and Politics of China & Japan	
U 2208 334 Comparative Social Analysis	
Independent Study: East Asia	
B. South Asia	
Requirement	
P 2205 131 Introduction to Indian Civilization	3
Electives (3 courses)	9
N 2206 306 Geography of South Asia	
S 2207 404 Government and Politics of South Asia and India	
N 2206 330 Culture in Transition in India: An Anthro-Geographical Approach	
Indian Literature and Culture	
Independent Study: South Asia	
Comparative Studies-Modernization	6-9
Electives (2 or 3 courses)	
U 2208 334 Comparative Social Analysis	
C 2204 303 or 403 Economic Growth and Development or Comparative Economic Systems	
J 2202 312 Peasant Culture	
S 2207 303 The Politics of Development and Modernization	
N 2206 409 Urbanization in World Perspective	
General Electives (3 or 4 courses)	9-12
N 2206 413 Geography of the Middle East	
P 2205 109 Introduction to Islamic Civilization	
J 2202 310 Cultures of the Middle East	
S 2207 406 Government and Politics of the Middle East	
J 2202 307 Ethnology of Southeast Asia and Oceania	
P 2205 133 Modern Chinese Civilization	
J 2202 432 Development of Japanese Character and Culture	
P 2205 223 The Communist Revolution in China	
P 2205 330 Chinese Social History through Literature	
P 2205 431 Development of Indian Character and Culture	
P 2205 342 Seminar in Asian History	
R 1509 237, 1599 231 Oriental Philosophy	
R 1599 212 Oriental Religions	

REQUIRED TOTAL 33

Latin American Studies

Program C

The Latin American Area Studies specialization offers the students a wide range of opportunities, both in terms of academic flexibility and future professional endeavors. The specialization provides a three-pronged approach: (1) the student is exposed to several disciplines, which analyze Latin America and Latin Americans in depth; (2) there is a language component, which enables the student to better understand local cultures and to communicate effectively within them; and (3) the field experience components of this specialization give the student the opportunity to put into practice the knowledge acquired in the classroom. Those graduating with this specialization will have a broad background, which will allow them great latitude in career choices.

	Semester Hours
Requirements	19-25

N 0308 100 The Many Worlds of Latin America: Interdisciplinary Perspectives	
P 2205 114 Early Latin American Civilization	
N 0308 300 Pre-Field Work Seminar in Latin American Area Studies	
N 0308 400 Field Experience in Latin American Area Studies	
N 0308 401 Post-Field Work Seminar in Latin American Area Studies	

Electives 8-14

Students are required to take courses in a minimum of three fields or disciplines. Early Latin American Civilization—which is a requirement—fulfills this minimum history need. Elective offerings are in the following fields: Anthropology, Comparative Education, Economics, Geography, History, Political Science, Sociology, Spanish, and Linguistics.

Courses of Instruction

Descriptions of required courses not listed here may be found under the sections of this catalog devoted to the departments of Anthropology; Economics; Environmental, Urban, and Geographic Studies; History; Philosophy and Religion; and Political Science.

N 0308 100

THE MANY WORLDS OF LATIN AMERICAN INTERDISCIPLINARY PERSPECTIVES

4.0

This course is designed to introduce the student to the study of Latin America from an interdisciplinary point of view. It focuses on the physical environment, the creations of people in their environment, their literary culture, their development over the span of time and their social and political conditions. The interdisciplinary approach is used to illustrate the interrelatedness of all aspects of life in Latin America so that it might be seen as a total culture region.

N 0308 300

PRE-FIELD WORK SEMINAR IN LATIN AMERICAN AREA STUDIES

3.0

This course prepares students for their field experience in either the Hispanic communities of the mainland or in selected regions of Latin America. It is designed to acquaint the students with techniques of planning for different kinds of field work, designing proposals and learning to take into account culture differences. (The faculty represents a variety of disciplines and the teaching is interdisciplinary.)

Prerequisite: N 0308 100.

N 0308 400

THE FIELD EXPERIENCE IN LATIN AMERICAN AREA STUDIES

6.0-12.0

The field experience permits students participation in the Latin American area studies program to acquire first-hand knowledge of some aspect of life in a Latin American community. The students, after having selected their topics, are responsible for sending reports from the field, developing the techniques they need for working in cooperation with program staff, and demonstrating that they have begun to interpret local reality in a disciplined manner.

Prerequisites: N 0308 100, 300, or course in similar field.

N 0308 401

POST-FIELD WORK SEMINAR IN LATIN AMERICAN AREA STUDIES

3.0

The post field work seminar enables the students to organize ideas and materials gathered during the field experience in an analytic report. The seminar affords students the opportunity to exchange ideas and information with other members of the group on their specific field experiences as these relate to report preparation.

Prerequisites: N 0308 300, 400.

Special Programs

Afro-American Studies Minor (18 semester hours)

The undergraduate minor in Afro-American studies is an interdisciplinary academic program designed to be complementary to any of the undergraduate majors of Montclair State College. The Afro-American and African syntheses within the context of African, American and European culture are presented with their transcultural, interethnic and intellectual tradition—providing an appreciation of the heritage, arts, sciences and values of non-European and non-Euro-American groups. The Afro-American studies program will also provide for Black students a greater knowledge of self, self-respect and self-esteem. Afro-American studies for other students will build knowledge and awareness of Afro-American history, Afro-American culture and Afro-American people.

Required Courses

	Semester Hours
4903 399 Development of Black Thought	3
2205 217 History of Black Americans	3
OR	
4903 381 Africa in Classical Antiquity	3

Electives

Select 12 semester hours from the appropriate interdepartmental list to be obtained from the coordinator of Afro-American studies.

Archaeology Minor (18 semester hours)

Jointly sponsored by the Anthropology, Classics, and Fine Arts departments, this minor offers the student an interdisciplinary program in the study of ancient cultures. The minor is flexible enough to allow students to explore the newest scientific techniques in excavation, dating, and laboratory analysis as well as the historical and aesthetic appreciation of the arts of ancient societies. It also encourages the study of foreign languages and those natural sciences which aid in the reconstruction of ancient cultures.

An archaeology minor is useful in careers such as publishing, the travel industry, environmental impact studies, and secondary and college teaching. Those students who wish to pursue advanced work in archaeology or related fields leading to careers in research and teaching, excavation, museum work, and salvage/contract archaeology will find the minor excellent preparation for graduate study especially when combined with a major in an appropriate area such as anthropology, classics, or art history.

Required Courses

	Semester Hours
2202 205 Prehistoric Archaeology	3
4903 181 Classical Archaeology	3

Electives

Select 12 semester hours from the appropriate list to be obtained from the coordinator of the program. This group of courses will include at least one in fine arts 12

Cooperative Education

Cooperative Education is a unique learning opportunity integrating classroom studies with supervised work experiences. Co-op enables a student to explore various career options and gain valuable practical experience prior to graduation.

Faculty, staff, or the individual student may arrange paid full- or part-time internships in businesses and agencies for a minimum of one semester. All positions are required to meet Co-op work-learning criteria. To register for the program, a student must obtain a "Permission to Register" form from the Co-op office.

Depending upon the academic department, students can earn major or free elective credits. Four, six, or eight credits are awarded for each Co-op semester. The exact amount is dependent upon the duration of the position. A maximum of 16 credits can be earned through Co-op.

Application to the program is accepted as early as the sophomore year. Students with a minimum grade point average of 2.25 and 45 earned credits are invited to participate in the program. Specific departmental criteria may be required. A Professional Preparation Seminar stressing interviewing techniques must be attended by all applicants.

Employers participating in the Co-op program determine screening criteria. Students meeting criteria are referred for interviews. The actual hiring decisions are made solely by the employers. The Co-op office plays no role in these decisions.

Once hired, a student is assigned a faculty coordinator who supervises the learning experience. This coordinator requires academic projects and seminars designed to enhance the student's learning. Work performance is evaluated by the site supervisor. A letter grade is awarded for the completion of all assignments.

Students interested in the Cooperative Education program should contact the office early in each semester.

Career Development Co-op Programs

4950 301 Cooperative Education-Experience I	3.0-8.0
	Variable
4950 401 Cooperative Education-Experience II	3.0-8.0
	Variable

Department Co-op Programs

0701 499 Cooperative Education in Computer Science	8.0
1507 301 Cooperative Education (English)	8.0
2099 391 Cooperative Education in Psychology	9.0
2208 390 Cooperative Education in Sociology	8.0
0991 405 Cooperative Industrial Internship	4.0-8.0
	Variable
2103 381 Cooperative Education in Recreation and Parks	4.0
0845 230 Introduction to Business Work Experience	8.0
1499 326 Seminar and Internship in Law III: Cooperative Education (optional elective)	4.0-8.0
	Variable
0503 491 Cooperative Education-Quantitative Methods	3.0-8.0
	Variable
0504 491 Cooperative Education-Finance (only for Coop II's)	3.0-8.0
	Variable
1102 380 Cooperative Education for the French Major	4.0-8.0
	Variable
1104 385 Cooperative Education (Italian)	4.0-8.0
	Variable
1105 385 Cooperative Education (Spanish)	4.0-8.0
	Variable
1198 385 Cooperative Education (Portuguese)	4.0-8.0
	Variable

Health Careers Program

The Health Careers Program provides highly motivated and academically capable disadvantaged students with potential for undergraduate success opportunities to prepare for careers in the health professions. This goal is achieved through a balance of formal course work, comprehensive supportive services, field experiences and financial assistance. Successful completion of the program is designed to increase competitive admission into professional schools.

Acceptance into the program is dependent upon being disadvantaged by virtue of environment or economic circumstances.

The program works in close cooperation with the University of Medicine and Dentistry of New Jersey and Fairleigh Dickinson University School of Dentistry. All field experiences are held at these facilities.

Reserve Officers
Training Corps (ROTC)

Army

The department of Military Science at Seton Hall University offers courses and a program in military science designed to qualify young men and women for commissions in the U.S. Army. Officers commissioned through ROTC are educated by the same professors, under the same curricula and at the same institutions which produce civilian leaders; earn degrees in the field of their choice; represent all geographic, economic and social strata; are highly motivated, open-minded and civilian oriented. Army ROTC aids students by providing leadership and management experience found in few college courses; providing opportunity for a military career in the active army or a reserve component; developing self-discipline, physical stamina and poise; enhancing development of management skills; and developing qualities basic to success in any career.

Montclair State College in concert with Seton Hall University has provided the opportunity for students interested in the ROTC program to receive instruction in basic military science courses at the Montclair campus for college credit. (All military science courses are applicable as free elective credits toward graduation from MSC.) Registration for these basic courses is through MSC. While basic instruction is open to all students, only those with two academic years remaining (undergraduate or graduate) may matriculate into the program leading to a commission as a second lieutenant.

In addition, the Army awards scholarships on a competitive basis to outstanding young men and women who are interested in the Army as a career. The scholarships provide tuition, textbooks, laboratory fees, and a monetary allowance of \$100 each month for up to ten months of each school year the award is in effect. Direct inquiries to the Scholarship Officer at Seton Hall, (201-763-3078), or to the MSC Office of the Vice President for Academic Affairs.

Courses of Instruction

9 1801 100 INTRODUCTION TO U.S. ARMY AND ROTC 1.0
Military organization, customs, tradition, and life-styles. Introduction to basic military skills; role of the U.S. Army; branches of the Army; benefits of the service; professionalism and ethics of the Army officer.

9 1801 130 TOPOGRAPHICAL MAP READING 1.0
An introduction to topographical map reading and land navigation techniques. Methods of navigating using the magnetic compass and natural terrain features. Use of map and compass in practical orienteering exercises.

9 1801 155 LEADERSHIP DEVELOPMENT 1.0
A study of the skills and knowledge that are the foundations for developing military leaders. Included are military courtesy and discipline, customs and traditions of the service, and an analysis of the leader's role in directing and coordinating the efforts of individuals and small units in accomplishing their missions.

9 1801 160 AMERICAN MILITARY HISTORY 2.0
A study of the development of American military institutions, policies, experiences and traditions in peace and war. From colonial times to the present. Emphasis will be on the relationship between the military and other aspects of American society and the role of the military in the establishment, expansion preservation, and development of the nation.

Air Force

Montclair State students can earn appointments as commissioned officers in the U.S. Air Force, through an ROTC cross-town agreement with New Jersey Institute of Technology. Students with two or more years of college remaining in either undergraduate or graduate studies are eligible to apply. Credits for the general military, professional officer courses and aerospace studies, taught at NJIT are applicable as free elective credits toward graduation from MSC. For information on the conditions, benefits, and procedures of the program, contact the Office of the Vice President for Academic Affairs.

Special Education

Although there is no Department of Special Education at Montclair State College, there are four undergraduate and 11 graduate programs which offer preparation for a variety of special education professions. These programs are coordinated by the Council of Special Education Programs (COSEP). This interdisciplinary unit brings together programs from the Schools of Humanities and Social Sciences, Professional Studies, and Fine and Performing Arts. Because COSEP encourages academic programs which include practical experience as an essential component of training, it maintains the Psychoeducational Center, which is located on campus.

Information about the following programs may be found in this catalog: Communication Sciences and Disorders (Audiology and Speech Pathology), Music Therapy, Reading, Therapeutic Recreation.

Women's Studies Minor

The Women's Studies Minor program is an interdisciplinary academic program. The minor includes two required three credit core courses: an introductory interdisciplinary course and an independent study project at the end of the minor program. Flexibility of choice of the other 12 credits from courses in various academic departments permits a student either to get a broad perspective of women's studies or to specialize in an area such as women in literature or women in society. Each student should consult with the faculty advisor of the Women's Studies program, to work out a suitable course of studies to meet the minor requirements. The Women's Studies minor consists of 18 credits.

Required Courses

	Semester	Hours
2220 201 Women's Worlds	3	
2220 401 Independent Study	3	

Electives

Select 12 semester hours from the appropriate interdepartmental list to be obtained from the coordinator of the program 12

Courses of Instruction

9 2220 102

WOMAN'S WORLD

An interdisciplinary course designed to introduce students to the field of women's studies and to the faculty participating in the program. Cross listed with psychology under T 2001 102.

9 2220 401

INDEPENDENT STUDY

Either a research project or a practicum in an area of women's studies.

3.0

C 2204 250

SELECTED TOPICS IN ECONOMICS

(Economics of Women)

An in-depth study of a particular theoretical or applied area of economics. (Topic will be Economics of Women.)

3.0

J 2202 415

WOMEN IN TRADITIONAL SOCIETY

Surveys several traditional preindustrial societies with special emphasis on the place of women in each society studied. The connections between environment, technology and the female work role are investigated, and the amount of power women have over their own lives and those of others is assessed. The place of women in each society's symbolic systems is also analyzed.

3.0

K 4903 186

MYTHS AND IMAGES OF WOMEN IN FRENCH LITERATURE

Literary treatments of female characters in representative works from the middle ages to the present. Taught in English.

3.0

K 4903 383

WOMEN IN ANTIQUITY

Women in the ancient world and their contributions to history, literature, philosophy, and the arts. Emphasis on Greco-Roman civilization, with comparative study of other ancient cultures.

3.0

M 1501 294

WOMEN POETS

Selected poets from Sappho through Emily Dickinson to Sylvia Plath, examined in relation to contemporary women poets.

3.0

Prerequisite: M 1501 160.

M 1503 372

MAJOR WOMEN PROSE WRITERS

Significant relationships among the writings of not more than five women such as Mme. de Stael, Mary McCarthy and Susan Sontag.

3.0

M 1503 492

SEMINAR IN COMPARATIVE LITERATURE

A culture, theme, era or literary approach studied through international literary masterpieces. Topic: selected writings in Women's Utopian and science fiction literature with an emphasis on the literature of the twentieth century.

3.0

P 2205 215

WOMEN IN AMERICAN HISTORY

History of American women from colonial times to the present, with particular emphasis on women's work, social and political movements, and their changing roles in American society.

3.0

P 2205 309

FEMINIST IDEAS IN WESTERN THOUGHT

History of feminist ideas and theories about women and womanhood. Students examine important theoretical literature in Europe and America from 18th century to present. Original texts of Wollstonecraft, Fuller, Mill, and Freud will be considered.

3.0

Q 1505 255

WOMEN AND LANGUAGE

A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on women and language plus practical experience in collecting and analyzing linguistic data.

3.0

I 599 267

WOMEN IN RELIGION

The roles which have been held by women in the various religious traditions of the world.

3.0

S 2207 214

WOMEN IN POLITICS

The role of women in the functioning of the American political system.

3.0

T 2001 265

PSYCHOLOGY OF WOMEN

The course will investigate contemporary issues in the psychology of women (an opportunity for original research will be provided). Theoretical positions and recent research in the area will be examined.

3.0

Prerequisite: 6 semester hours in psychology.

U 2208 414

SELECTED TOPICS IN APPLIED SOCIOLOGY

(Women and Work)

A study of women's work in contemporary society.

3.0

U 2208 430

SOCIOLOGY OF SEX ROLES

The social determinants of differences between women and men and the effect of sex role differentiation in the social institutions of marriage and family, the economy and work situation, formal education, health, mass media, and religion. Special emphasis is placed on the impact of social change on sex roles in contemporary society.

3.0

2 0842 335

THE LEGAL RIGHTS OF WOMEN

This course will include some historical background for clearer understanding of what the changes in laws mean for women and men. Discussion and study of the effect of Affirmative Action, Civil Rights legislation and Titles VI and IX will be included. Legal rights in the areas of education, employment, finances and credit, property ownership, marriage and divorce, health care, pensions and criminal law will be covered.

3.0

3 0821 264

SEXISM IN AMERICAN EDUCATION

Designed to analyze sexism on the American schools. Emphasis on sex role stereotyping in teacher behavior, peer behavior, curriculum and textbook content.

3.0

3 0821 463

WOMEN AND EDUCATION IN MODERN WESTERN SOCIETY

The role and education of women in particular types of societies. Attention given to the U.S., France, and Latin America. An effort is made to relate the educational situation of women to their social conditions. Attention given to the education of working class, bourgeois, and aristocratic women.

3.0

6 1301 205

WOMEN IN CONTEMPORARY SOCIETY

Those historical developments and social forces which have shaped the status of women in America. Discussion of current concerns and role options available to today's women.

3.0

8 0879 229

WOMEN IN SPORT

This course traces a variety of factors that have affected the development of sports participation for women.

3.0

Appendix of Scholarships and Awards

Accounting, Law and Taxation

KATHIE BRODT MEMORIAL SCHOLARSHIP

Amount: Varies
Criteria: Accounting major with a concentration in accounting, 90 credits completed toward the baccalaureate degree, registered for full-time study (at least 12 semester hours each term during the year of grant) and academic achievement and financial need.
Contact: Chairperson, Accounting, Law and Taxation Department

Biology

CHARLES HADLEY MEMORIAL FUND FOR INDEPENDENT STUDENT RESEARCH

Amount: Up to \$75.00
Criteria: Undergraduates who have displayed excellence of work and need for financial assistance to complete their research and independent student projects in biology.
Contact: Chairperson, Biology Department

Business Administration

RAFFAELA BASILE MEMORIAL SCHOLARSHIP

Amount: Up to \$500
Criteria: Upcoming junior or senior in the School of Business Administration, service to the College, favorable academic standing, and financial need.
Contact: Dean, School of Business Administration

Career Services

CHARLES BARGERSTOCK MEMORIAL FUND

Amount: \$500 (per semester)
Criteria: Graduate student enrolled in the counseling, human services and guidance program. Available for internship fifteen hours weekly in Career Services Office.
Contact: Career Services Office, Department of Counseling, Human Services and Guidance, or Graduate Department

Chemistry

GEORGE F. PLACEK AWARD FUND

Amount: Varies
Criteria: Outstanding sophomore chemistry major (announced in May, awarded in May)
Contact: Chairperson, Chemistry Department

SOKOL GRADUATE FELLOWSHIP IN CHEMISTRY

Amount: \$10,000
Criteria: Senior chemistry major showing most potential for success in doctoral study and research in chemistry.
Contact: Chairperson, Chemistry Department

Economics

J.S. GANG SCHOLARSHIP

Amount: Varies
Criteria: To provide incentive to outstanding students in the field of economics or political science who remain at Montclair State College for their upper division work. Criteria in order of priority are to have excelled academically and to require financial assistance.
Contact: College Development Office

Geography

MILSTEAD AWARD FOR EXCELLENCE IN GEOGRAPHY

Amount: Approximately \$150.00
Criteria: Junior major in environmental, urban and geographic studies with high academic standing, minimum 12 hours in major—shows future promise as a professional geographer
Contact: Dr. Harbans Singh, Environmental, Urban, and Geographic Studies Department

Graduate Studies

HAROLD C. BOHN FELLOWSHIP

Amount: Varies
Criteria: Senior who shows promise in any academic discipline and presents a bonafide plan for graduate study.
Contact: College Development Office

SIMONE PICARD ASSISTANCE FUND

Amount: Varies
Criteria: Student enrolled in a master's degree or other post-baccalaureate program at Montclair State College. Preference will be given to applicants preparing for careers in teaching or related educational areas. Under circumstances deemed exceptional by the Committee, partial assistance may be granted to baccalaureate degree students who have completed at least 60 semester hours of work of which 24 semester hours had been completed at Montclair State College.
Contact: Dr. Bertha B. Quintana, Anthropology Department

History

JULIAN J. JAFFE MEMORIAL AWARD

Amount: \$75. - \$100.00
Criteria: Undergraduate student who has shown distinction in history and a "concern for the truth about the past."
Contact: Chairperson, History Department

WILLIAM McLEAN SCHOLARSHIP

Amount: \$250. - \$500. junior or senior year
Criteria: Outstanding junior-year history major who has demonstrated appreciation of the comprehensiveness of historical study and the interrelatedness of history, the social sciences and the humanities. A minimum average of 3.00 in history and an overall average of at least 2.67 are required.
Contact: Chairperson, History Department

Home Economics

ESSEX COUNTY HOME ECONOMICS EXTENSION COUNCIL SCHOLARSHIP

Amount: \$200.00
Criteria: Junior student; high academic standing; financial need; professional potential; resident of Essex County.
Contact: Chairperson, Home Economics Department

ESSEX/HUDSON HOME ECONOMICS ASSOCIATION SCHOLARSHIP

Amount: \$200.00
Criteria: Junior student; high academic standing; professional potential; financial need; Essex or Hudson county resident.
Contact: Chairperson, Home Economics Department

FASHION STUDIES AWARD

Amount: \$100.00
Criteria: Fashion studies or consumer affairs major with clothing and textiles, interior design, household equipment and housing concentration; high academic standing; participation in college and/or community activities; professional potential.
Contact: Chairperson, Home Economics Department

KATHARINE B. HALL ALUMNI AWARD

Amount: \$100.00
Criteria: Junior who is a member of the MSCHEA, has a B or better average, and is outstanding in social and professional activities.
Contact: Chairperson, Home Economics Department

**MONTCLAIR STATE COLLEGE HOME
ECONOMICS ASSOCIATION SCHOLARSHIP**

Amount: \$100.00 or more
Criteria: Junior or senior standing; high academic standing; professional potential as demonstrated in organizations and activities; financial need.
Contact: Chairperson, Home Economics Department

**NEW JERSEY HOME ECONOMICS
ASSOCIATION SCHOLARSHIP**

Amount: \$200.00
Criteria: Sophomore or junior student with a B or better average—high participation in MSCHEA.
Contact: Chairperson, Home Economics Department

Horticulture

VIOLA WHITNEY PFLEGER FUND

Amount: \$500.00
Criteria: Students of horticulture recommended by chairperson of biology or designee.
Contact: Chairperson, Biology Department

Juniors and Seniors

ALUMNI ASSOCIATION SCHOLARSHIP

Amount: \$1,000 changes annually (20 scholarships 1983-84)
Criteria: Service to the campus; good academic standing; upcoming juniors and seniors.
Contact: Alumni House (applications available in January—deadline March 1st for following academic year)

**NEW JERSEY BELL TELEPHONE
COMPANY SCHOLARSHIP**

Amount: To be determined—two scholarships
Criteria: One junior student—one senior student. One male student—one female student. 3.50 average or better. Leadership and service to the College and community (awarded: late fall or early spring).
Contact: Director of Financial Aid

**ALPHA PHI OMEGA
SCHOLARSHIP**

Amount: \$100.00 (1 or 2 semesters)
Criteria: Extracurricular activities—above a 3.0 cumulative grade point average. Junior or senior who has participated in extracurricular activities.
Contact: Alpha Phi Omega

Languages

**GENERAL-FIELD OF MODERN
LANGUAGE MARGARET B. HOLTZ
FUND FOR STUDENT EXCHANGE**

Amount: \$200.00-\$500.00
Criteria: Study abroad
Contact: Dr. David Kelly, or Classics, German, or French Department, or College Development.

**GERMAN UNDERGRADUATE OR
RECENT GRADUATE OVERSEAS
NEIGHBORS EXCHANGE SCHOLARSHIP**

Amount: 28,000 Austrian Schillings (about \$1650), plus room, health insurance and 20-day pass on Austrian National Railway, Austrian National Railway.
Criteria: Undergraduate student fluent in German, ability to do university work. Decision made by interview committee.
Contact: Chairperson, German and Slavic Department (apply during early spring semester)

ITALIAN CLUB SCHOLARSHIP

Amount: Varies
Criteria: Interest in Italian culture or language, to further education here or abroad; must have good scholastic average; letter of recommendation, and some financial need.
Contact: Spanish and Italian Department or Italian Club

**TERESA DEESCORIZA SCHOLARSHIP,
SARA PRIETO SCHOLARSHIP**

Amount: Varies (three scholarships)
Criteria: Merit sophomore standing, minimum 12 credits in Spanish at time of application, extracurricular activities at Montclair State College, community services, special honors, financial need.
Contact: Spanish and Italian Department

Mathematics

JOHN C. STONE FUND

Amount: \$400.00—may vary
Criteria: Recommendation of Mathematics and Computer Science Department faculty with chairperson's approval—mathematics major.
Contact: Chairperson, Mathematics and Computer Science Department

Media

**EMANJ GRADUATE STUDY
SCHOLARSHIP IN
EDUCATIONAL MEDIA**

Amount: \$500.00 (two scholarships)
Criteria: Graduate media student
Contact: Director of Media and Technology

Merit Scholarships

**THE PHYLLIS LEBOFF ENDOWMENT FUND
IN HONOR OF HER HUSBAND,
GERALD A. LEBOFF**

Amount: Varies
Criteria: Talented and gifted undergraduate and graduate students.
Contact: Montclair State College Foundation (Office of Development and External Relations)

**MARY A. WHALEY
MEMORIAL SCHOLARSHIP**

Amount: Varies
Criteria: Incoming freshman to Montclair State College; gifted, middle income background; those who do not qualify or take advantage of financial aid; or to supplement these aids for those who do.
Contact: All-College Whaley Scholarship Committee

Minorities

DORTCH/DICKSON SCHOLARSHIP

Amount: Up to \$1,000.00
Criteria: Juniors and seniors. Service to the College and community; favorable academic standing; proven financial need.
Contact: Black Alumni Committee. Alumni House (applications available in January—deadline March 1st).

Music

**LARRY A. FRANK MUSIC
SCHOLARSHIP TRUST FUND**

Amount: Varies
Criteria: Music student who shows promise as a music educator, music performer, music therapist, music composer, theorist or historian.
Contact: Chairperson, Music Department

HOWE SCHOLARSHIP

Amount: Varies
Criteria: Promise of ability and interest—restricted to student of the organ.
Contact: Chairperson, Music Department

EDNA McEACHERN MUSIC FUND

Amount: Varies
Criteria: Financial need, musicianship and contribution to the department.
Contact: Chairperson, Music Department

**THE CHARLES G. MUNIER
MEMORIAL SCHOLARSHIP**

Amount: Varies
Criteria: A deserving piano student—preferably a junior recommended by faculty in the Music Department.
Contact: Chairperson, Music Department

Newly Matriculated First Year Students

ALUMNI ASSOCIATION INCENTIVE SCHOLARSHIP

- Amount:** Full tuition for one academic year (not renewable)
\$1,000–5 scholarships for 1983-84
- Criteria:** Newly matriculated first year students enrolled full time; top 5% of their high school class; minimum combined SAT score of 1,000; record of school and/or community involvement, preferably in leadership capacities.
- Contact:** Admissions Office

MARY A. WHALEY

MEMORIAL SCHOLARSHIP

- Amount:** Varies
- Criteria:** Incoming freshman to Montclair State College: gifted, middle income background; those who do not qualify or take advantage of financial aid; or to supplement these aids for those who do.
- Contact:** Montclair State College's Admissions office or All-College Whaley Scholarship Committee

Physical Education

PAUL P. BOGATKO SCHOLARSHIP

- Amount:** Varies
- Criteria:** To provide incentive to a student in good standing and financial need in the field of physical education who is a graduate of East Side High School, Newark, N.J.
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

MARGARET C. BROWN SCHOLARSHIP

(Donated by Robert Weston, '47)

- Amount:** \$150.00
- Criteria:** Sophomore physical education major with highest cumulative average who reflects some of Dr. Brown's professional ideals through leadership, service or participation in professional physical education activities on or off campus (i.e., conferences, workshops, conventions).
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

JOSEPH PAUL CERES SCHOLARSHIP

- Amount:** \$100.00
- Criteria:** Outstanding sophomore or junior woman gymnast with exceptional ability and leadership in gymnastics.
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

NICHOLAS CICCONE SCHOLARSHIP

- Amount:** \$200.00
- Criteria:** Junior physical education major with skill in motivating older adults to keep fit through movement activities.
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

DOROTHY AND VINCENT FARRELL SCHOLARSHIP

- Amount:** \$100.00
- Criteria:** Freshman with cumulative average of at least 2.75—participation in a minimum of five departmental extracurricular activities (not sports).
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

THERESA FARRELL AWARD

- Amount:** \$25.00
- Criteria:** Sophomore physical education male student with highest scholastic standing.
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

SUE FULLER MEMORIAL SCHOLARSHIP

- Amount:** \$500.00 approximately
- Criteria:** Junior woman in physical education—outstanding contributions through service to athletics (i.e. manager, publicity, statistician, etc.).
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

GERALD A. GARAFOLA SCHOLARSHIP

- Amount:** \$150.00
- Criteria:** Physical education sophomore who has made distinguished contributions and shown leadership in department activities, must have cumulative average of 2.80 or better.
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

A. J. GORTON SCHOLARSHIP

- Amount:** \$200.00
- Criteria:** Junior maintaining a continuous high level of skill in physical education activities.
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

DOUGLAS GREULICH MEMORIAL SCHOLARSHIP

(Presented by Delta Chapter or Phi Epsilon Kappa Fraternity)

- Amount:** \$50.00
- Criteria:** Student who participates in some phase of the intercollegiate athletic program, has involvement in community and professional programs and exhibits high scholastic achievement (target 3.00 cumulative average).
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

DOROTHEA AND SCOTT HARRIS SCHOLARSHIP

- Amount:** \$200.00
- Criteria:** Physical education sophomore—3.00 scholastic achievement (minimum), good citizen of College and community—shows promise of being successful teacher of physical education.
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

FANNIE DIENER HONIGFELD SCHOLARSHIP

- Amount:** \$100.00
- Criteria:** Junior student showing effective leadership in department organizations and providing service to meet departmental needs when requested.
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

ETHEL SIMPSON LENKOWSKY '37 SCHOLARSHIP (presented by daughter Mimi Cohen)

- Amount:** \$100.00
- Criteria:** Sophomore woman with highest scholastic record.
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

DEAN MARTINO MEMORIAL SCHOLARSHIP

- Amount:** \$100.00 Bond
- Criteria:** Junior physical education major who demonstrates a specific quality of Dean Martino's character, as well as a willingness of the student to give time to others.
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

PANZER STUDENT ASSOCIATION

ADAPTED PHYSICAL EDUCATION AWARDS

- Amount:** Varies
- Criteria:** Students who demonstrate exceptional service and qualities of leadership, understanding and creativity while fulfilling practicum assignments in the adapted area.
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

PANZER STUDENT SERVICE AWARD

- Amount:** \$50.00 Bond
- Criteria:** Student in good academic standing, who has provided outstanding leadership and service to the Panzer Student Association
- Contact:** Chairperson, Physical Education, Recreation, and Leisure Studies Department

PANZER TRUST FUND
(3 incentive scholarships)

Amount: \$200.00
Criteria: Freshmen entering Montclair State College in the fall. Three scholarships will be attainable:
1. Physical Education major
2. Recreation and Leisure Studies major
3. Health Careers major
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department—for #1 and #2
Chairperson, Health Professions Department for #3

JOSEPH NERENBERG SCHOLARSHIP
(presented by Old Times Athletes)

Amount: \$100.00
Criteria: Freshman physical education major with highest scholastic record who, through participation in athletics, best represents sportsmanship as well as good scholarship.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

PANZER ALUMNI SCHOLARSHIP

Amount: \$200.00
Criteria: Freshman physical education student with highest scholastic average and evidence of professional competence.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

THE PHILIPP MEMORIAL AWARD

Amount: \$500.00
Criteria: A capable student who would be in need of financial help in order to continue his/her education at the Panzer Department of Physical Education. Student must submit evidence of need.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

ELYSIA PHILIPP SCHOLARSHIP

Amount: Varies
Criteria: Student with average grades, standing not crucial, mainly someone in need of aid.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

PI ETA SIGMA SCHOLARSHIP

Amount: \$150.00
Criteria: Junior physical education woman with highest scholastic record.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

ROSE POPKIN SIMON '19 SCHOLARSHIP

Amount: \$50.00
Criteria: Physical education major in junior year who exhibits creativity and beauty of movement in modern dance.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

THOMAS THOMAS SCHOLARSHIP

Amount: \$100.00 each
Criteria: Two physical education junior students who have shown particular interest and skill in working with individuals possessing development disabilities.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

JUDGE ESTHER UNTERMANN SCHOLARSHIP

Amount: \$100.00
Criteria: Physical education freshman—positive leadership—cumulative average of 3.00 to 3.50.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

DR. HAZEL M. WACKER AWARD

Amount: \$50.00
Criteria: Two senior students for contributions to physical education through service in the Panzer Student Association, and who possess a cumulative average of 2.75 or more.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

Political Science

J. S. GANG SCHOLARSHIP

Amount: Varies
Criteria: To provide incentive to outstanding students in the fields of economics or political science who remain at Montclair State College for their upper division work. Criteria in order of priority are to have excelled academically and to be in financial need.
Contact: College Development Office

Psychology

ORPHA M. LUTZ LOAN FUND

Amount: Varies
Criteria: Financial loan to Montclair State College students majoring in psychology.
Contact: Chairperson, Psychology Department

Recreation and Leisure Studies

LETA GRAY BRICKLAND AWARD

Amount: \$100.00
Criteria: Recreation major concentrating in the field of therapeutic recreation in recognition of demonstrated scholarship, leadership in that field, and a cumulative grade point average of at least 3.00.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

PANZER ACADEMIC SCHOLARSHIP

Amount: \$100.00
Criteria: Recreation major with the highest cumulative grade point average after completing the first semester of the junior year.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

PHI EPSILON KAPPA AWARD, DELTA CHAPTER

Amount: \$50.00
Criteria: Recreation major who has shown constructive leadership in student activities and has a cumulative grade point average of at least 3.00.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

Second Careers

RALPH P. LASALLE SCHOLARSHIP

Amount: \$100.00
Criteria: Part-time Montclair State College student enrolled in a degree program—over 50 years of age—awarded in the spring and fall.
Contact: Second Careers Program

Sophomores

SOPHOMORE STUDENT-EDUCATIONAL LEADERSHIP HARRY S. TRUMAN SCHOLARSHIP

Amount: Varies—maximum \$5,000 a year for up to 4 years.
Criteria: A merit scholarship awarded at the end of the sophomore year to a student anticipating government service. Merit basis.
Contact: Dr. Grosvenor Rust, Educational Leadership by October 31.

Speech and Theatre

MALCOM FAIRFIELD FUND

Amount: Varies
Criteria: Financial support for special student and faculty activities beyond normal College budgeting. Student pursuing independent study in theatre—apply by submitting a proposal for amount of money.
Contact: Chairperson, Speech and Theatre Department

DENNIS K. McDONALD AWARD IN THEATRE

Amount: \$100.00
Criteria: Theatre graduate or undergraduate (junior or senior)—performance quality, professional potential, evidence of continued development, 3.00 in theatre courses.
Contact: Chairperson, Speech and Theatre Department

**DENNIS K. McDONALD MEMORIAL
SCHOLARSHIP**

Amount: \$300.00

Criteria: Freshman theatre student planning to pursue BFA in theatre—audition required—academic competence. Based on admission audition.

Contact: Chairperson, Speech and Theatre Department

Technical Theatre Student

**ALEXANDRA PODLIPNY TECHNICAL
THEATRE AWARD**

(Awarded through the Speech & Theatre Alumni Fund)

Amount: Varies

Criteria: Outstanding technical student chosen on basis of potential, contribution, and talent.

Contact: Chairperson, Speech and Theatre Department



ADMINISTRATION AND FACULTY

COLLEGE BOARD OF TRUSTEES

MURRAY L. COLE, Chairperson
MILLICENT G. ANISFIELD, Vice
Chairperson
LILLIAM VALDES-DIAZ, Secretary
DONALD E. WALTERS, Ex Officio
LOUIS C. AGUERO
ROBERT BIRNBAUM
ERNEST M. MAY
WILLIAM L. MUCKELROY
BORDEN R. PUTNAM
PHILIP H. THAYER, JR.
KATHLEEN S. WILKINS, Faculty
Representative
DONNA MEADE, Alumni Association
Representative
BART SPINELLI, Student Representative

OFFICERS OF THE COLLEGE

DONALD E. WALTERS, J.D., President
ROLAND GARRETT, Ph.D., Vice President
for Academic Affairs
ELLIOT I. MININBERG, Ph.D., Vice
President for Administration and
Finance
JEAN M. ARMSTRONG, Ph.D., Vice
President for Student Affairs

PRESIDENT'S CABINET

DONALD E. WALTERS, J.D., President
JEAN M. ARMSTRONG, Ph.D., Vice
President for Student Affairs
ROLAND GARRETT, Ph.D., Vice
President for Academic Affairs
RENÉ GIMBRÈRE, Ph.D., Director of
Institutional Research and
Assistant to the President
ELLIOT I. MININBERG, Ph.D., Vice
President for Administration
and Finance
GRAYDON A. TUNSTALL, JR., Ph.D.,
Director of Development and External
Relations
ANITA WALTERS, L.L.B., Director of
Equal Opportunity/Affirmative Action
and Executive Assistant to the
President

ACADEMIC DEANS

SURESH A. DESAI, Dean, Ph.D., School of
Business Administration
DONALD A. MATTRAN, Dean, M.Mus.,
School of Fine and Performing Arts
PHILIP S. COHEN, Dean, Ph.D., School of
Humanities and Social Sciences
RICHARD A. LYNDE, Dean, Ph.D., School
of Mathematical and Natural Sciences
NICHOLAS M. MICHELLI, Dean, Ed.D.,
School of Professional Studies

PRESIDENT'S OFFICE: Donald E.
Walters, J.D., President

Alumni Affairs

Cynthia A. Lepre, B.A., Director

Development and External Relations

Graydon A. Tunstall, Jr., Ph.D., Director

Equal Opportunity/Affirmative Action

Anita Walters, L.L.B., Director and
Executive Assistant to the
President

Institutional Research

René Gimbère, Ph.D., Director and
Assistant to the President

Public Relations

Patricia Nieder, B.J., Director

Publications

Wanda Kline, Director

Special Events

Robert E. MacVane, M.Ed., Senior
Assistant to the President

Secretary to Board of Trustees

Helen M. Ochs, Special Assistant to the
President

ACADEMIC AFFAIRS: Roland Garrett,
Ph.D., Vice President for Academic
Affairs

Jesse J. Young, M.A., Assistant to Vice
President for Academic Affairs

Basic Skills

Robert Garfunkel, M.A., Academic
Coordinator

Center for Continuing Education

Ray J. Ast, M.A., Administrative Director

Center for Legal Studies

Marilyn Frankenthaler, Ph.D., J.D.,
Director

Cooperative Education

Freyda Lazarus, M.A., Director

Educational Opportunity Fund

Yvonne Burton, M.A., Acting Director

Graduate Studies

Stephen Dobish, Ed.D., Associate Director

Grants Administration

Ray J. Ast, M.A., Administrator

Health Careers Program

Rosie A. Noble, M.S., Director

Institute for the Advancement of Philosophy for Children

Matthew Lipman, Ph.D., Director

Intra-Collegiate Academic Programs

Curtis Jackson, Ed.D., Director

Library Services

Blanche W. Haller, B.L.S., B.A., Director

Media Center

Robert R. Ruezinsky, M.A., Director

New Jersey School of Conservation

John J. Kirk, Ph.D., Director

Psychoeducational Center

Antoinette Spiotta, M.A., Director

Second Careers Program

Alicia P. Savage, Ed.D., Director

Student Teaching and Placement

Beverly Q. McHugh, M.A., Director

Student Tutorial Program

Geraldine Barlow, M.A., Director

Summer Sessions and Special Programs

John H. Leffler, Ed.D., Director

Weekend College

John H. Sanz, M.S., Director

ADMINISTRATION AND FINANCE:

Elliot I. Mininberg, Ph.D., Vice President
for Administration and Finance

Administrative Services

Peter R. Macagne, B.S., Assistant to Vice
President, Administration and Finance

Budget and Fiscal Planning

Charles W. Moore, M.B.A., Director

Bursar

Vil F. Maristela, B.A., C.P.A.

Business Services

William J. Kervick, B.S., Director

Campus Police, Security and Safety

Jayne Rich, B.S., Chief

Computer Center

M. Lynn Truesdell, Director, Information
Management Systems

Faculty-Student Cooperative Association, Inc.

Jeffrey A. Shapiro, M.G.A., Chief
Executive Officer

Institutional Planning

Jerome R. Quinn, P.E., Director

Intercollegiate Athletics

William Dioguardi, M.S., Director,
Athletics

Maintenance

Joseph E. McGinty, Engineer in Charge

Personnel Services

Richard R. Davis, M.A., Director

Purchasing

Regina Rudenstein, B.A., Senior Buyer

STUDENT AFFAIRS: Jean M. Armstrong,
Ph.D., Vice President for Student Affairs
Edward C. Martin, Ed.D., Dean of
Students
James E. Harris, M.A., Assistant Dean
of Students

Admissions

Alan L. Buechler, Ed.D., Director

Career Services

Eileen Bruck, M.A., Director

Financial Aid

Randall W. Richards III, Ed.D., Director

Health Center

Lillian Rosenberg, M.D., College Physician

International Students

James E. Harris, M.A., Director

Intramurals and Leisure-Time Activities

McKinley Boston, M.A., Director

Psychological Services

Susan J. Herman, Ph.D., Director

Registrar

Marshall A. Butler, M.A.

Residence Life

Raymond M. Stover, Jr., Ed.D., Director

Student Activities

Thomas F. Stepnowski, M.A., Director

Veterans' Services

Kenneth J. Key, Assistant

Women's Center

Constance Waller, Ed.D., Director

ACCOUNTING, LAW, AND TAXATION

FRANK J. AQUILINO, M.B.A., B.B.A., St.
John's University; C.P.A., State of New
York

FRANCIS J. CAHILL, M.B.A., Rutgers •
The State University; B.S., St. Peter's
College; C.P.A., State of New York

ELISSA G. COGAN, M.B.A., Cornell Uni-
versity; B.A., New York University;
C.P.A., State of New Jersey

IRENE K. DOUMA, Ph.D., Baruch College,
CUNY; M.B.A., Rutgers • The State
University; B.S., Fairleigh Dickinson
University; C.P.A., State of New Jersey

JOSEPH A. GRECO, Ph.D., M.B.A., New
York University; B.B.A., St. John's
University; C.P.A., State of New Jersey

RICHARD W. HAYDEN, M.B.A., Iona College; B.A., Syracuse University; C.P.A., State of New York
 JAMES E. MARTINI, M.S., B.S., Bryant College of Business Administration; C.P.A., State of New Jersey
 LEO J. McMENIMEN, Ph.D., M.S., B.S., Pennsylvania State University; C.P.A., States of New Jersey and New York
 PHYLLIS L. MIRCHIN, M.B.A., New York University; B.S., William Paterson College
 MICHAEL O'GARA, J.D., Brooklyn Law School; B.A., St. Peter's College
 RALPH J. PALUMBO, M.B.A., Fairleigh Dickinson University; B.A., Montclair State College; C.P.A., State of New Jersey
 LEE PRIMIANO, M.B.A., Rutgers • The State University; B.A., Montclair State College; C.P.A., State of New Jersey
 ARNOLD SCHANCUPP, L.L.M., New York University; J.D., Brooklyn Law School; B.B.A., CCNY; C.P.A., States of New Jersey and New York
 DOROTHY L. SHAPIRO, J.D., Brooklyn Law School; M.B.A., Pace University; B.S., Wagner College; C.P.A., State of New York
 JAMES G. YANG, M.B.A., New York University; M.S., Utah State University; B.A., National Taiwan University; C.P.A., State of Colorado; C.M.A.

ANTHROPOLOGY

JAMES BOYLAN, Ph.D., M.A., B.A., Wayne State University
 KENNETH H. BROOK, Ph.D., CUNY; M.A., B.A., Hunter College
 DOROTHY K. CINQUEMANI, Ph.D., Columbia University; B.A., University of New Mexico
 MARCHA P. FLINT, Ph.D., CUNY; M.A., New York University; B.A., Hunter College
 RICHARD W. FRANKE, Ph.D., B.A., Harvard University
 HARRIET M. KLEIN, Ph.D., Columbia University; B.A., University of Chicago
 BERTHA B. QUINTANA, Ed.D., M.A., New York University; B.A., Upsala College
 MAURIE SACKS, Ph.D., Columbia University; B.A., Queens College

BIOLOGY

ROSA MAE BRADLEY, Ph.D., New York University; M.S., Howard University; B.A., Dunbarton College
 LARRY D. CRIBBEN, Ph.D., Ohio State University; M.N.S., University of Oklahoma; B.S., Rio Grande College
 ANN MARIE DI LORENZO, Ph.D., M.S., New York University; B.A., Trinity College
 ROSALYN T. KANE, M.S., New York University; B.A., Hunter College
 LEAH K. KODITSCHKE, Ph.D., Rutgers • The State University; M.A., Oberlin College; B.A., Hunter College
 STEPHEN J. KOEPP, Ph.D., M.A., North Texas State University; B.A., Messiah College
 JOHN K. KORKY, Ph.D., University of Nebraska; M.S., University of Texas at El Paso; B.S., Wagner College
 S. MARIE KUHNEN, Ph.D., New York University; M.A., Columbia University; B.A., Montclair State College
 LEE H. LEE, Ph.D., CUNY; M.S., Hunter College; B.S., National Taiwan University
 JON MICHAEL McCORMICK, Ph.D., M.S., Oregon State University; B.S., Portland State University

ANNA C. PAI, Ph.D., Albert Einstein College of Medicine; M.A., Bryn Mawr College; B.A., Sweet Briar College
 JUDITH A. SHILLCOCK, Ph.D., Rutgers • The State University; M.A., Montclair State College; B.S., Seton Hall University
 PAUL P. SHUBECK, Ph.D., Rutgers • The State University; M.A., Montclair State College; B.S., Seton Hall University
 ALVIN A. STEIN, Ph.D., CUNY; M.S., B.S., Brooklyn College

BUSINESS EDUCATION AND OFFICE SYSTEMS ADMINISTRATION

STEPHEN CYRUS, Ed.D., Temple University; M.A., B.A., Montclair State College
 SHEILA GERSH, M.S., Hunter College; B.B.A., CCNY (Baruch)
 DOLORES GIOFFRE, Ed.D., Rutgers • The State University; M.A., B.S., Trenton State College
 KATHLEEN M. GOELZ, Ed.D., Temple University; M.Ed., West Chester State University; B.S., Temple University
 JOSEPH C. HECHT, Ed.D., M.A., New York University; B.S., Long Island University
 ROSEMARIE McCAULEY, Ed.D., Fairleigh Dickinson University; M.A., Seton Hall University; B.A., Trenton State College
 JOHN McGINNIS, M.A., B.S., Montclair State College
 ALBERT D. ROSSETTI, Ed.D., Rutgers • The State University; M.A., Montclair State College; B.S., Trenton State College
 PALMINA A. UZZOLINO, M.A., Catholic University of America; B.S., New York University
 SHEPHERD WALKER, M.B.A., Long Island University; B.B.A., Pace University

CHEMISTRY

HAANI Y. AWADALLAH, M.S., Bowling Green State University; B.S., Cairo University
 JOSEPH D. BECKER, Ed.D., M.A., Columbia University; J.D., Seton Hall University; M.Ed., University of Delaware; B.A., Harvard University
 PAMELA J. DELANEY, Ph.D., Georgetown University; B.Sc., University of Capetown
 ROLAND R. FLYNN, M.A., Brown University; B.A., Montclair State College
 RICHARD A. FRIEDMAN, Ph.D., M.S., B.A., New York University
 IRWIN H. GAWLEY, JR., Ed.D., Columbia University; M.A., B.A., Montclair State College
 JOHN L. ISIDOR, Ph.D., University of North Carolina; B.S., Stonehill College
 MARC L. KASNER, Ph.D., Purdue University; B.S., California State University at Long Beach
 RICHARD A. LYNDE, Ph.D., Iowa State University; A.B., Hamilton College
 NANCY S. PAISLEY, Ph.D., M.A., University of Illinois; B.A., University of Minnesota
 ALBERT ZABADY, M.S., University of New Hampshire; M.A., B.A., Montclair State College

CLASSICS

DAVID H. KELLY, Ph.D., M.A., University of Pennsylvania; B.A., Catholic University of America
 TIMOTHY T. RENNER, Ph.D., M.A., University of Michigan; B.A., Yale University

COMMUNICATION SCIENCES AND DISORDERS

JOSEPH S. ATTANASIO, Ph.D., New York University; M.A., B.A., Montclair State College
 ELAINE BARDEN, Ph.D., Columbia University; M.A., Seton Hall University; B.A., Douglass College
 GERARD CARACCIOLO, Ed.D., Teachers College, Columbia University; M.A., B.A., Montclair State College
 ELAINE FINE, Ed.D., Teachers College, Columbia University; M.A., CCNY; B.A., Queens College
 WARREN HIEISS, Ed.D., Yeshiva University; M.A., Jersey City State College; B.S., Pennsylvania State University
 GILBERT I. EIGHT, Ph.D., M.A., Columbia University; B.S., CCNY
 MICHAEL LINDENMAN, Ph.D., New York University; M.A., Teachers College, Columbia University; B.A., Trenton State College
 NAOMI SCHIFF-MYERS, Ph.D., M.A., Teachers College, Columbia University; B.A., Barnard College
 HAROLD SCHOLL, Ed.D., Teachers College, Columbia University; M.B.A., B.B.A., CCNY
 TERRY D. SCHON, Ph.D., Syracuse University; M.A., Hunter College; B.S., Bowling Green State University
 EDWARD SHULMAN, Ph.D., University of Iowa; M.S., University of Minnesota; B.A., Western Michigan University
 GERALD WOOLF, Ph.D., New York University; M.A., University of Pittsburgh; B.S., CCNY
 SHIRLEY ZEITLIN, Ed.D., SUNY at Albany; M.S., CUNY; M.S., SUNY at New Paltz; B.A., New York University

COUNSELING, HUMAN SERVICES AND GUIDANCE

MARIE FRAZEE-BALDASSARRE, Ed.D., Columbia University; M.A., B.A., Montclair State College
 ABRAHAM GELFOND, Ph.D., M.A., New York University; B.S., Rutgers • The State University
 ALFRED H. GORMAN, Ed.D., Columbia University; M.A., B.S., New York University
 DONALD B. GREGG, Ed.D., Lehigh University; M.A., B.A., Montclair State College
 RICHARD A. GREY, Ed.D., Fordham University; M.A., Montclair State College; B.S., Winston-Salem Teachers College
 LAWRENCE B. HAMEL, Ph.D., St. John's University; M.A., Boston University; B.A., St. John's University
 ARLENE KING, Ph.D., Fordham University; M.A., Montclair State College; B.A., New York University
 THOMAS MILLARD, Ed.D., Fairleigh Dickinson University; M.A., New York University; M.S., The New York School of Social Work, Columbia University; B.A., Rutgers • The State University
 EDWIN MILLS, M.Ed., Florida Atlantic University; B.A., Bob Jones University
 EIDOLA J. TALLEY, Ph.D., Boston University; M.A., University of Rhode Island; B.A., University of Texas
 TETE H. TETENS, M.A., Columbia University; B.S., Union College
 CONSTANCE WALLER, Ed.D., M.A., Columbia University; B.S., Indiana University

CURRICULUM & TEACHING

JOHN BARELL, Ed.D., Columbia University; M.A., CUNY; A.B., Harvard University
 CATHERINE A. BECKER, Ph.D., New York University; M.A., B.A., Montclair State College

SUSIE B. BOYCE, Ed.D., Rutgers • The State University; M.A.T., Tulane University; B.A., Florida State University
 JUDITH MacDONALD, Ed.D., M.A., Columbia University; B.A., Brown University
 NICHOLAS M. MICHELLI, Ed.D., Columbia University; M.A., New York University; B.A., Montclair State College
 ROBERT A. PINES, Ed.D., University of Miami; M.S., Rutgers • The State University; B.S., Monmouth College
 ANITA E. UHIA, Ed.D., Rutgers • The State University; M.A., Montclair State College; B.A., Fairleigh Dickinson University
 JOSEPH L. VENTURINI, Ed.D., M.Ed., Rutgers • The State University; B.A., Glassboro State College

ECONOMICS

SURESH DESAI, Ph.D., M.A., University of California—Los Angeles; Ph.D., L.L.B., M.A., B.A., Gujarat University (India)
 HAROLD FLINT, Ph.D., M.A., Southern Illinois University; B.A., Western Kentucky University
 SOLOMON HONIG, Ph.D., M.A., Columbia University; B.A., CCNY
 HUMPHREY HUSBANDS, M.A., Hunter College; B.B.A., Baruch College
 PHILLIP LeBEL, Ph.D., M.A., Boston University; A.B., Washington College
 KAMROUZ PIROUZ, Ph.D., University of Hawaii; M.B.A., Rutgers • The State University; B.S., University of Wisconsin (Oshkosh)
 GLENVILLE RAWLINS, Ph.D., New York University; M.A., Howard University; B.A., University of West Indies
 MARGARET REILLY-PETRONE, Ph.D., M.A., Fordham University; B.A., Immaculate Heart College
 FARAHMAND REZVANI, Ph.D., CUNY; M.A., Roosevelt University; B.S., Pahlavi University
 FRANCES SCHER, M.A., Columbia University; B.A., Smith College
 SERPIL SISIK-LEVEEN, Ph.D., New York University; M.A., Southern Illinois University; B.A., University of Ankara (Turkey)

EDUCATIONAL FOUNDATIONS

GEORGE BERNSTEIN, Ed.D., M.A., Teachers College, Columbia University; B.A., Rutgers • The State University
 MARY E. BREDEMEIER, Ed.D., Rutgers • The State University; M.A., Columbia University; B.S., Madison College
 FRANCESCO CORDASCO, Ed.D., M.A., New York University; B.A., Columbia University
 MYRNA DANZIG, M.A.T., Radcliffe College; B.A., Cornell University
 THUNDER F. HAAS, Ed.D., Rutgers • The State University; M.A., B.S., Seton Hall University
 ANN MARGARET SHARP, Ed.D., University of Massachusetts; M.A., Catholic University of America; B.A., College of New Rochelle

EDUCATIONAL LEADERSHIP

LAURENCE BELLAGAMBA, Ed.D., Columbia University; M.A., B.S., New York University
 JOSEPH F. BRUNNER, Ed.D., University of Massachusetts; M.A., B.A., Jersey City State College
 ANNE C. CASTENS, Ed.D., Rutgers • The State University; M.A., B.A., Montclair State College

JULIA DUTKA, Ed.D., Ed.M., M.A., Teachers College, Columbia University; B.A., Hong Kong University
 GEORGE D. HEISS, Ed.D., Rutgers • The State University; Ed.M., University of Maryland; B.A., Brooklyn College
 TINA JACOBOWITZ, Ph.D., New York University; M.A., University of Wisconsin; B.A., Brooklyn College
 GERHARD LANG, Ph.D., Columbia University; M.A., B.S., CCNY
 FRANK P. MERLO, Ed.D., Rutgers • The State University; M.A., B.A., Montclair State College
 WENDY G. OXMAN, Ph.D., Fordham University; M.A., Yeshiva University; B.A., Brandeis University
 GROSVENOR RUST, Ph.D., A.M., University of Chicago; A.B., Wheaton College
 MARIA E. SCHANTZ, Ed.D., Columbia University; M.A., Montclair State College; B.S., Jersey City State College
 DIANA J. STONE, Ph.D., Fordham University; M.A., Montclair State College; B.A., Adelphi College
 DONALD E. WALTERS, J.D., University of Maryland School of Law; A.B., Catholic University of America
 DAVID E. WEISCHADLE, Ed.D., Ed.M., B.S., Rutgers • The State University

ENGLISH

SHAHLA ANAND, Ph.D., New York University; M.A., Agra University (India); M.A., Columbia University
 JEANNINE A. BARRETT, Ph.D., M.A., New York University; B.A., Tennessee State University
 MURIEL BECKER, M.L.S., Rutgers • The State University; M.A., Montclair State College; B.A., Hunter College
 THOMAS BENEDIKTSSON, Ph.D., University of Washington; B.A., Trinity University
 BUTLER E. BREWTON, Ph.D., Rutgers • The State University; M.A., Montclair State College; B.A., Benedict College
 DANIEL BRONSON, Ph.D., University of Pennsylvania; A.B., Harvard University
 JANET K. CUTLER, Ph.D., M.A., University of Illinois, Champaign-Urbana; B.A., The University of Chicago
 WILLIAM C. DELL, M.A., B.A., New York University
 DAVID W. DICKSON, Ph.D., M.A., Harvard University; L.H.D., B.A., Bowdoin College; L.H.D., Bloomfield College
 WOLFGANG B. FLEISCHMANN, Ph.D., M.A., University of North Carolina; B.A., St. John's College
 GROVER C. FURR, Ph.D., M.A., Princeton University; B.A., McGill University
 ROBERT G. GORDON, M.A., B.A., Colgate University
 MICHAEL F. GRIECO, M.A., Columbia University; B.A., Montclair State College
 CLAIRE HEALEY, Ph.D., M.A., Columbia University; B.S., Boston University
 BARRY D. JACOBS, Ph.D., M.A., Harvard University; B.A., DePauw University
 RITA JACOBS, Ph.D., M.A., University of Pennsylvania; B.A., Queens College
 LEE C. KHANNA, Ph.D., M.A., Columbia University; B.A., Denison University
 NAOMI C. LIEBLER, Ph.D., M.A., SUNY at Stony Brook; B.A., CCNY
 DEENA LINETT, Ed.D., Ed.M., Rutgers • The State University; A.B., Boston University
 ANTHONY L. LOVASCO, M.A., University of Connecticut; B.A., Williams College
 MORRIS G. McGEE, Ed.D., M.A., New York University; B.A., Montclair State College

ALYCE SANDS MILLER, Ph.D., M.A., Pennsylvania State University; B.A., Hunter College
 JAMES F. NASH, Ph.D., M.A., University of Virginia; B.A., LaSalle College
 J. RAYMOND PAUL, M.A., Columbia University; B.A., Princeton University
 GEORGE R. PETTY, JR., Ph.D., M.A., New York University; B.A., Princeton University
 THEODORE PRICE, Ph.D., Rutgers • The State University; M.A., Columbia University; B.A., Kenyon College
 MURRAY PROSKY, Ph.D., M.A., University of Wisconsin; B.A., New York University
 SANFORD RADNER, Ed.D., M.A., Columbia University; B.A., Duke University
 MORTON D. RICH, Ph.D., New York University; M.Ed., Rutgers • The State University; B.A., Cornell University
 DOROTHY R. RUDY, M.A., Columbia University; B.A., Queens College
 LAWRENCE SCHWARTZ, Ph.D., Rutgers • The State University; M.A., Stanford University; B.A., Newark College of Engineering
 DOUGLAS M. SCHWEGEL, Ph.D., University of Minnesota; M.A., George Washington University; B.A., Lake Forest College
 KEITH D. SLOCUM, Ph.D., M.A., University of Pennsylvania; B.A., Knox College
 SHARON SPENCER, Ph.D., M.A., B.A., New York University
 CAROLE B. STONE, Ph.D., Fordham University; M.A., Rutgers • The State University; B.A., New York University
 DAVID M. STUEHLER, Ph.D., M.A., New York University; B.A., Rutgers • The State University
 DOUGLAS TOMLINSON, M.A., New York University; B.A., York University (Canada)

ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES

HOWARD R. BALLWANZ, M.S. Ed., B.S., Northern Illinois University
 BERTRAND P. BOUCHER, M.A., B.A., Colorado University
 SOPHIA G. HINSHALWOOD, Ph.D., Rutgers • The State University; M.A., University of Georgia; B.A., Central College
 W. AUGUSTUS RENTSCH, Ph.D., University of Michigan; M.A., Montclair State College; B.A., Adrian College
 DAVID K. ROBERTSON, Ph.D., M.S., Rutgers • The State University; B.A., University of Michigan
 HARBANS SINGH, Ph.D., M.A., Rutgers • The State University; M.A., Punjab University (India); B.A., Government College (Rupar, India)
 ROLF STERNBERG, Ph.D., Syracuse University; M.A., Clark University; B.A., Ursinus College
 ROBERT W. TAYLOR, Ph.D., St. Louis University; B.A., Washington University

FINANCE AND QUANTITATIVE METHODS

NEMAT BAHMANI, Ph.D., M.S., University of Pennsylvania; M.S., Pahlavi University (Iran)
 ARYEH BLUMBERG, Ph.D., A.M., A.B., University of Chicago
 HARVEY BLUMBERG, Ph.D., CUNY; M.B.A., Baruch College; B.B.A., CCNY
 CHUAN YU CHEN, Ph.D., New York University; M.S., University of Tokyo; M.A., Columbia University; B.S., National Taiwan University
 ALICE CHONG-MA, M.A., B.A., National Taiwan University
 ALLEN KHORRAMI, M.B.A., Phillips University; B.S., Melli University (Iran)

ALAN J. OPPENHEIM, Ph.D., New York University; M.S., B.S., Polytechnical Institute of Brooklyn
 ELDAD SHIDLOVSKI, Ph.D., New York University; M.A., B.A., Tel Aviv University (Israel)
 ELIZABETH WEBBINK, Ph.D., New York University; B.S.F.S., Georgetown University
 DAVID YAMOAH, M.B.A., Rutgers • The State University; M.S., University of Ghana; B.S., University of Science and Technology (Ghana)

FINE ARTS

PETER G. BARNET, Ed.D., M.A., B.A., New York University
 SUSAN BARRIS, Ed.D., Columbia University; M.A., Pratt Institute; B.A., Brooklyn College
 JOHN CARTER, M.A., B.A., University of California at Los Angeles
 M. ANNE CHAPMAN, M.F.A., Cranbrook Academy of Art; B.F.A., Cleveland Institute of Art
 CARMEN CICERO, B.S., Newark State College
 JOHN CZERKOWICZ, M.F.A., Rutgers • The State University; M.A., B.F.A., University of New Mexico
 LEON DELEEUW, M.A., B.A., New York University
 SUELEEN GLASHAUSER, M.A., University of California; B.A., Manhattanville College
 NANCY GOLDRING, M.A., New York University; B.A., Smith College
 ABRAHAM KAMPE, Ph.D., M.A., New School for Social Research; B.S., New York University; Diploma, Art Teachers College, Tel Aviv (Israel)
 ROBERT KIRSCHBAUM, M.F.A., Yale University, School of Art; B.A., University of Rochester
 RICHARD KYLE, M.A., Teachers College, Columbia University; B.A., Paterson State College
 PATRICIA LAY, M.F.A., Rochester Institute of Technology; B.S., Pratt Institute
 ARLINE LEDERMAN, M.A., B.A., New York University
 CHARLES MARTENS, Ed.D., M.A., New York University; B.Sc. in Ed., Massachusetts College of Art
 WILLIAM McCREATH, M.F.A., Cranbrook Academy of Art; B.F.A., University of Manitoba School of Art; Diploma, Teachers College, Dundee, Scotland
 ELLEN MOHAMMED, M.A., Columbia University; B.S., North Carolina Agricultural and Technical State University
 HELENE ROSS, M.F.A., B.F.A., B.S., Temple University
 BETTY SCHLOSSMAN, Ph.D., M.A., Columbia University; B.A., Wellesley College
 KLAUS SCHNITZER, M.F.A., Ohio University; B.A., SUNY at Albany
 JONATHAN SILVER, M.A., B.S., Columbia University
 MICHAEL SIPORIN, M.F.A., B.A., Southern Illinois University
 WALTER SWALES, M.F.A., Cranbrook Academy of Art; B.A., Temple University
 ALIDA WALSH, M.F.A., San Diego State University; B.S., Northwestern University
 CAROL WESTFALL, M.F.A., Maryland Institute College of Art; B.F.A., Rhode Island School of Design

FRENCH

MAURICE CAGNON, Ph.D., University of Pennsylvania; M.A., Middlebury College; B.A., Providence College
 ROBERT M. GLICK, Ph.D., B.A., University of Chicago; M.A., Middlebury College

HELENE KLIBBE, Ph.D., Syracuse University; Licence-ès-Lettres Université de Paris (Sorbonne)
 LOUIS J.M. ROEDERER, Ph.D., New York University; Licence en Droit Université de Lyon
 MADELEINE A. SERGENT, M.A., University of Colorado; Diploma de la Escuela Central de Idiomas, University of Madrid
 ROBERT SOFFER, M.A., Teachers College, Columbia University; M.A., Columbia University; B.A., New York University
 LILLIAN SZKLARCZYK, Ph.D., University of Pennsylvania; M.A., Middlebury College; B.A., Hunter College
 KAY S. WILKINS, Ph.D., B.A., University of Southampton (England)

GERMAN AND SLAVIC

WALTER L. HEILBRONNER, Ph.D., M.A., B.A., University of Michigan
 CARL D. LINDBLOM, Ph.D., Rutgers • The State University; M.A., B.Mus., University of Rochester
 JOHN V. MOORE, Ph.D., M.A., Princeton University; A.B., Harvard College
 ERNESTINE SCHLANT, Ph.D., M.A., B.A., Emory University
 CAROLINE SCIELZO, Ph.D., M.A., New York University; B.A., Barnard College

HEALTH PROFESSIONS

RUTH C. BLANCHE, Ed.D., Columbia University; M.A., B.A., Seton Hall University; R.N., Monmouth Medical Center
 ELIZABETH J. CLARK, Ph.D., M.A., University of North Carolina; M.P.H., M.S.W., B.A.S.W., University of Pittsburgh
 MICHAEL S. DAVIDSON, Ed.D., M.Ed., M.A., Columbia University; B.A., Brown University
 CAROLE DONOVAN, Ed.D., Columbia University; M.A., B.A., Jersey City State College
 JOAN FICKE-LASALA, Ed.D., M.A., New York University; B.A., Montclair State College
 HARRY H. HOITSMA, Ed.D., M.A., B.S., New York University
 MARK A. KAELIN, Ed.D., Teachers College, Columbia University; M.A., B.A., Montclair State College
 CATHERINE J. PASKERT, Ph.D., University of Utah; M.A., Columbia University; B.S., Panzer College
 JOHN G. REDD, Ph.D., M.A., University of Michigan; B.S., Ohio State University
 REZA B. SHAHROKH, Ph.D., M.S., B.S., Southern Illinois University

HISTORY

RICHARD J. BARKER, Ph.D., M.A., Duke University; B.A., University of Rochester
 ROBERT R. BECKWITH, Ph.D., M.A., Columbia University; B.A., Montclair State College
 JOHN T. BELL, M.A., B.A., Montclair State College
 GEORGE C. BRETHERTON, Ph.D., M.A., B.S., Columbia University
 PHILIP S. COHEN, Ph.D., M.A., B.S., New York University; Degre Supérieur, Université de Paris
 JAMES P. KEENEN III, Ed.D., Columbia University; M.A., B.A., Montclair State College
 PETER F. MACALUSO, Ph.D., New York University; M.A., Seton Hall University; B.A., St. Bonaventure University
 JOSEPH T. MOORE, Ed.D., B.S., Rutgers • The State University; M.A., Montclair State College
 LOIS A. MORE, Ed.D., Columbia University; M.A., B.A., Montclair State College

J. KENNETH OLENIK, Ph.D., M.A., Cornell University; M.A., Seton Hall University; B.S.S.S., John Carroll University
 PETER PASTOR, Ph.D., M.A., New York University; B.S., CCNY
 HELEN ROYER, Ph.D., Pennsylvania State University; M.A., B.A., Bucknell University
 JOEL SCHWARTZ, Ph.D., M.A., B.A., University of Chicago
 AMY GILMAN SREBNICK, Ph.D., SUNY at Stony Brook; M.A., B.A., University of Wisconsin
 LESLIE E. WILSON, M.A., Hunter College; M.P.S., B.A., Cornell University
 L. SHARON WYATT, Ph.D., University of Florida; M.A., B.A., University of New Mexico
 LOUIS B. ZIMMER, Ph.D., M.A., New York University; B.S., SUNY at Cortland

HOME ECONOMICS

HUBERTA D. ALCARO, M.S., Purdue University; B.A., Western Washington State College
 JOAN D. BERNSTEIN, Ed.D., Columbia University; M.A., CUNY; B.A., Queens College
 KATHLEEN BAUER, Ph.D., M.S., Rutgers • The State University; B.S., Northern Illinois University
 MARTHA CONKLIN, M.S., B.S., University of Missouri
 M. ELAINE FLINT, Ph.D., Pennsylvania State University; M.S., Southern Illinois University; B.A., Western Kentucky University
 LOIS J. GUTHRIE, M.S., Purdue University; B.S., West Virginia University
 KATHARINE B. HALL, Ph.D., Pennsylvania State University; M.S., B.S., University of Tennessee
 JUANITA HUDSON, M.A., Columbia University; B.S., University of Illinois
 VIJAY JAISINGHANI, Ph.D., M.A., Iowa State University; B.S., B.Ed., Delhi University (India)
 BARBARA LITWORNIA, Ph.D., M.S., Rutgers • The State University; B.A., Douglass College
 MARGARET R. MUKHERJEE, Ph.D., Rutgers • The State University; M.A., Michigan State University; B.S., Cornell University
 N. CATHERINE NORRIS, Ed.D., New York University; M.S., B.S., University of Tennessee
 MIRIAM G. SILVER, Ed.D., New York University; M.A., Bank Street College of Education; B.A., Douglass College
 KAREN TODD, Ph.D., University of Iowa; M.S., B.S., North Texas State University

INDUSTRIAL STUDIES

ROBERT BROWNING, Ed.D., M.A., Columbia University; B.S., SUNY at Oswego
 ROBERT F. DORNER, Ed.D., New York University; M.A., Montclair State College; B.S., Trenton State College
 HARRISON GOODALL, Ed.D., New York University; M.A., Ball State University; B.S., Trenton State College
 MARTIN T. GREENWALD, Ed.D., New York University; M.S., CCNY; B.S., B.A., New York University
 DEBORAH HEALY, M.F.A., Syracuse University; M.A., Montclair State College; B.A., College of New Rochelle
 ROBERT MARTENS, M.A., University of Northern Colorado
 GEORGE A. OLSEN, Ed.D., New York University; M.A., Montclair State College; B.S., Newark State College

WINFIELD L. PARSONS IV, M.A., Texas A & M University; B.S., California State University of Pennsylvania
 FRED D. SCHUMM, Ed.D., New York University; M.A., Montclair State College; B.S., Newark State College
 RAYMOND C. VAN BENSCHOTEN, Ed.D., Ed.M., B.S., Rutgers • The State University
 VINCENT J. WALENCIK, Ed.D., Rutgers • The State University; M.A., B.S., Montclair State College
 RICHARD WOLFSON, M.A., Ohio State University; B.S., CCNY.

LEGAL STUDIES

DIERDRE M. BARZ, J.D., Rutgers-Newark School of Law; M.A., Columbia University; B.A. Sarah Lawrence College.
 MARILYN FRANKENTHALER, Ph.D., Rutgers • The State University; J.D., Seton Hall University; M.A., Hunter College; B.A., CCNY.
 AVRAM B. SEGALL, J.D., New York Law School; B.S., University of Wisconsin.
 DONALD E. WALTERS, J.D., University of Maryland School of Law, A.B., Catholic University of America

LINGUISTICS

ALICE F. FREED, Ph.D., M.A., B.A., University of Pennsylvania
 ROBERT L. MILLER, Ph.D., M.A., University of Michigan; B.A., Wayne State University
 MILTON S. SEEGMILLER, Ph.D., M.A., New York University; B.A., Brooklyn College

MANAGEMENT

JAMES W. BECK, Ph.D., M.A., University of Iowa; B.A., Southeast Missouri State University
 EDWARD D. BEWAYO, D.P.A., SUNY at Albany; M.S., M.A., University of Wisconsin; B.A., University of Delhi (India)
 JEFFREY CROSS, M.B.A., Long Island University; B.S., Monmouth College
 EILEEN KAPLAN, Ph.D., Rutgers • The State University; M.A., New School for Social Research; B.A., Syracuse University
 BYUNG K. MIN, Ph.D., Pennsylvania State University; M.B.A., SUNY at Albany; B.A., Seoul National University (Korea)
 CARL A. RODRIGUES, D.P.A., Nova University; M.S.M., B.A., Florida International University
 JUNAID J. SHAIKH, M.S., M.A., Rider College, B.A., Poona University (India)
 HERBERT SHERMAN, M.S., Polytechnic Institute of New York; B.A., CCNY
 JOHN TURNER, Ph.D., CUNY; M.B.A., CCNY; B.S., Fairleigh Dickinson University
 ELMER E. WATERS, Ph.D., CUNY; M.B.A., Rutgers • The State University; B.S., Columbia University

MARKETING

RALPH A. DIPIETRO, Ph.D., New York University; M.B.A., B.B.A., Baruch College
 M. NADEEM FIROZ, Ph.D., North Texas State University; M.B.A., University of Dallas; M. Com., B.Com., University of Peshawar (Pakistan)
 ALLEN S. MARBER, Ph.D., New York University; M.B.A., Baruch College; B.A., Michigan State University
 RICHARD L. PEARL, M.B.A., B.B.A., Pace University
 NORA J. RIFON, M.A., SUNY at Binghamton; B.A., University of Rochester

ALLEN J. SIMONSON, J.D., A.B., Rutgers • The State University; M.B.A., Seton Hall University
 EPHRAIM PHILIP WEINGARTEN, Ph.D., M. Phil., New York University; B.S., Brooklyn College
 VICKI J. WULWICK, Ph.D., CUNY; M.B.A., Baruch College; B.S., Columbia University

MATHEMATICS AND COMPUTER SCIENCE

PHILIP H. ANDERSON, M.S., Purdue University; B.S., M.A., University of Notre Dame
 MODRIS O. BAUM, Ph.D., M.S., New York University; B.A., Rutgers • The State University
 EDWARD A. BOYNO, Ph.D., M.S., Rutgers • The State University; B.A., St. Peter's College
 CARL E. BREDLAU, Ph.D., M.S., B.A., Rutgers • The State University
 THOMAS F. CARROLL, M.A., Rutgers • The State University; M.A.T., B.S., Tulane University
 ANDREW DEMETROPOULOS, Ph.D., Stevens Institute of Technology; M.S., M.A., New York University; B.A., Rutgers • The State University
 THOMAS F. DEVLIN, Ph.D., M.A., Catholic University of America; B.A., LaSalle College
 MOHAMMAD R. GANGEEMOGHADAM, M.S., Rutgers • The State University; M.A., Montclair State College; B.A., Tehran Business College
 ROBERT GARFUNKEL, M.A., Montclair State College; B.A., Rutgers • The State University
 CARL GOTTSCHALL, Ph.D., J.D., New York University; M.S., Yeshiva University; B.A., CUNY
 GEORGE H. GUGEL, M.S., SUNY at Oneonta; B.A., Hartwick College
 HACI-MURAT HUBEY, Ph.D., University of New Hampshire; M.S., B.S., New Jersey Institute of Technology
 KENNETH KALMANSON, Ph.D., CUNY; B.S., Brooklyn College
 KAILA KATZ, Ph.D., M.A., New York University; M.S., Simmons College; B.A., Brandeis University
 PATRICIA KENSCHAF, Ph.D., M.A., University of Pennsylvania; A.B., Swarthmore College
 WILLIAM G. KOELLNER, M.A., B.A., Montclair State College
 MARCOANTONIO LACATENA, M.A., Montclair State College; B.S., Fairleigh Dickinson University
 AUDREY J. LEEF, Ed.D., Rutgers • The State University; M.S., Stevens Institute of Technology; B.A., Montclair State College
 EVAN M. MALETSKY, Ph.D., New York University; M.A., B.A., Montclair State College
 GIDEON NETTLER, M.S., Polytechnic Institute of Boston; B.S., Rensselaer Polytechnic Institute
 WILLIAM R. PARZYNSKI, Ph.D., M.S., B.S., Stevens Institute of Technology
 HELEN MARCUS ROBERTS, Ph.D., Johns Hopkins University; B.S., CCNY
 MAX A. SOBEL, Ph.D., M.A., Columbia University; B.S., Montclair State College
 JOHN G. STEVENS, Ph.D., New York University; B.S., Indiana University
 RUTH C. STEWART, Ed.D., M.A., B.A., Rutgers • The State University; M.A., Columbia University
 JAMES H. STODDARD, Ph.D., B.S., University of Michigan

WALTER R. WESTPHAL, M.A., University of Illinois; M.A., Columbia University; B.S., SUNY at Buffalo
 THOMAS E. WILLIAMSON, JR., Ph.D., Rutgers • The State University; B.S., University of Maryland
 DOROTHY R. WOLFF, Ph.D., New York University; M.A., B.A., Montclair State College
 KENNETH C. WOLFF, Ph.D., New York University; M.A., Pennsylvania State University; B.A., Montclair State College
 PHILIP W. ZIPSE, Ph.D., Rutgers • The State University; M.S., University of Akron; B.S., DePaul University

MUSIC

EDMUND BATTERSBY, M.Mus., B.Mus., Julliard School of Music
 DONALD BUTTERFIELD, Diploma, Julliard School of Music
 BRENDA MILLER COOPER, M.A., Columbia University; Professional Diploma, Julliard Graduate School of Music; B.S., Western Reserve University
 JOHN L. GIRT, M.F.A., B.F.A., Carnegie Mellon University
 KAREN GOODMAN, M.S., Hunter College; B.A., University of Wisconsin
 HOWARD GREENBLATT, M.A., Hofstra University; B.A., Queens College
 TING HO, Ph.D., University of Rochester; M.A., Kent State University; B.A., Bucknell University
 LEON HYMAN, M.S., Julliard School of Music; B.A., Queens College
 JEROME L. LANDSMAN, D.M.A., M.Mus., University of Southern California; B.Mus., University of Rochester
 BETTY LIST, M.A., B.A., Montclair State College
 DONALD A. MATTRAN, M.Mus., B.Mus., The University of Michigan
 DONALD M. MINTZ, Ph.D., B.A., Cornell University; M.F.A., Princeton University
 MARIO F. ONEGLIA, Ed.D., M.A., Professional Diploma, Columbia University; B.Mus., Manhattan School of Music
 EDWARD PIERSON, B.A., Roosevelt University
 MURRAY PRESENT, B.Mus., Michigan State University; Diploma, Julliard School of Music
 DAVID RANDOLPH, M.A., Columbia University; B.S., CCNY
 OSCAR RAVINA, Diploma, Leningrad Conservatory of Music; Diploma, Bruckner Conservatory of Music; Diploma, Academy of Music in Salzburg, Diploma, Academy of Music in Vienna
 RUTH RENDLEMAN, Ed.D., Columbia University; M.Mus., Manhattan School of Music; B.Mus., North Carolina School of Arts
 JACK SACHER, Ed.D., M.A., Columbia University; B.A., Middlebury College
 ROBERT STEPHENS, Ph.D., Indiana University; Ed.M., M.A., Columbia University; B.S., Savannah State College
 BARBARA L. WHEELER, Ph.D., Fordham University; M.Mus., Florida State University; B.Mus., Hastings College
 THOMAS WILT, M.Mus., B.Mus., University of Rochester
 CHAIM ZEMACH, Diploma, Cologne University (Germany); Diploma, Accademia Chigiana (Italy)

NEW JERSEY SCHOOL OF CONSERVATION

ALBERTO FERNANDEZ, M.A., University of Michigan; B.S., Montclair State College
 REGINA N. KELLY, M.A., B.A., Trenton State College

JOHN J. KIRK, Ph.D., M.A., University of Michigan; B.S., Boston University
 JAMES K. MERRITT, M.A., Glassboro State College; B.A., Trenton State College
 JERRY T. SCHIERLOH, M.S., Purdue University; B.S., Western Michigan University

PHILOSOPHY AND RELIGION

KENNETH AMAN, Ph.D., Yale University; M.A., Fordham University; M.Th., B.D., Maryknoll Seminary; B.A. Maryknoll College
 DAVID BENFIELD, Ph.D., M.A., Brown University; B.A., St. John's College
 THOMAS BRIDGES, Ph.D., M.A., Columbia University; B.A., New York University
 EVA FLEISCHNER, Ph.D., Marquette University; M.A., University of Notre Dame; B.A., Radcliffe College
 ROLAND GARRETT, Ph.D., M.A., B.A., Columbia University
 STEPHEN JOHNSON, Ph.D., M.Phil., Yale University; M.A., Marquette University; B.A., Spring Hill College
 MICHAEL S. KOGAN, Ph.D., B.A., Syracuse University
 BILL E. LAWSON, Ph.D., M.A., B.A., University of North Carolina at Chapel Hill
 MATTHEW LIPMAN, Ph.D., B.S., Columbia University
 ADELE MCCOLLUM, Ph.D., M.A., B.S., Syracuse University
 WILLIAM L. STANTON, Ph.D., M.A., Princeton University; B.A., Stanford University
 ROBERT F. STREETMAN, Ph.D., Drew University; S.T.M., Pacific School of Religion; B.D., Duke Divinity School; B.A., Millsaps College

PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES

REE K. ARNOLD, Ed.D., Columbia University; M.Ed., Miami University; B.S., Valparaiso University
 MARILYN CHAMBERLIN, M.A., Columbia University; B.S., Panzer College
 VIRGINIA A. CROSSMAN, M.A., Columbia University; B.S., Boston University
 DOMENICA DESIDERIOSCIOLI, M.S., B.S., Brooklyn College
 JERRY G. DICKASON, Ph.D., M.A., New York University; B.S., Indiana University
 HENRY M. FERRIS, M.A., New York University; B.A., Syracuse University
 ROB GILBERT, Ph.D., B.A., University of Massachusetts
 GEORGE A. HORN, Ed.D., M.A., New York University; B.S., Albright College
 LEONARD K. LUCENKO, Ph.D., University of Utah; M.A., New York University; B.A., Temple University
 JACK B. SAMUELS, Ed.D., M.Ed., Temple University; B.S., SUNY at Cortland
 CARLA E. SAYERS TABOURNE, M.S., Herbert H. Lehman College; B.A., Bard College
 JOAN SCHLEDE, Ed.D., M.A., B.S., New York University
 TIMOTHY F. SULLIVAN, M.S., Ithaca College; B.S., SUNY at Cortland
 JOSEPH TOTH, Ed.D., Colorado State College; M.Ed., Kent State University; B.S., University of Akron
 SUSAN A. WESTON, Ed.D., Rutgers • The State University; M.A., Montclair State College; B.S., Russell Sage College

PHYSICS/GEOSCIENCE

MARY A. DERENGOWSKI-STEIN, Ph.D., Columbia University; B.A., College of Our Lady of the Elms
 IMAD E. HAMDAN, M.A.T., B.S., Fairleigh Dickinson University
 CHARLES L. HAMILTON, Ph.D., Virginia Polytechnic Institute; M.A., Dartmouth College; B.A., Lehigh University
 RICHARD H. HODSON, M.A., Montclair State College; B.S., Trenton State College
 FRANK S. KELLAND, M.A., Clark University; B.Ed., Keene State College
 LUDWIK KOWALSKI, Ph.D., University of Paris; M.S., B.S., Polytechnic Institute of Warsaw
 STEPHEN W. KOWALSKI, Ph.D., M.A., New York University; B.S., Fairleigh Dickinson University
 TZU-CHIANG MA, Ph.D., University of North Carolina; B.S., National Cheng Kung University
 BEN MINOR, M.E.E., B.S., CCNY; I.E., Columbia University; P.E., State of New Jersey
 ROBERT C. RAMSDELL, M.A., Princeton University; M.S., Rutgers • The State University; B.A., Lehigh University
 JOHN V. THIRUVATHIUKAL, Ph.D., Oregon State University; M.S., Michigan State University; B.S., St. Louis University
 MARY L. WEST, Ph.D., Columbia University; M.S., B.A., Cornell University

POLITICAL SCIENCE

OPOKU AGYEMAN, Ph.D., York University (Toronto); M.A., Makerere, Uganda; B.A., University of Ghana
 HARRY BALFE II, J.D., Catholic University of America; M.A., American University; B.A., Trinity College
 WILLIAM M. BATKAY, Ph.D., M.A., Columbia University; B.A., Fordham University
 WILLIAM S. BERLIN, Ph.D., Rutgers • The State University; M.A., George Washington University; B.A., Brooklyn College
 GILBERT O. HOURTOULE, Ph.D., Pennsylvania State University; M.A., Stanford University; B.A., Montclair State College
 EDWARD W. JOHNSON, Ph.D., New York University; M.A., New School for Social Research; B.A., Rutgers • The State University
 LUCINDA LONG, Ph.D., M.A., Johns Hopkins University; B.A., Mary Washington College
 GEORGE T. MENAKE, Ph.D., New York University; M.A., St. John's University; B.A., St. Peter's College
 GEORGE N. ZILBERGELD, Ph.D., Miami University; M.A., San Francisco State University; B.A., Rutgers • The State University

PSYCHOLOGY

EDWARD ARONOW, Ph.D., M.A., Fordham University; B.A., Queens College
 IRWIN J. BADIN, Ph.D., New York University; B.A., Long Island University
 MARTIN BROWN, Ed.D., Rutgers • The State University; M.A., Columbia University; B.S., CUNY
 LEONARD J. BUCHNER, Ph.D., Columbia University; M.A., B.A., Montclair State College
 JOAN CHEU, Ph.D., M.A., Teachers College, Columbia University; B.A., National Taiwan University
 RICHARD D. DRAPER, Ph.D., M.S., Purdue University; B.A., Kalamazoo College

WALTER R. DURYEA, Ph.D., Florida State University; M.A., University of Connecticut; B.A., Rutgers • The State University
 KATHERINE W. ELLISON, Ph.D., CUNY, B.A., Agnes Scott College
 MARK J. FRIEDMAN, Ph.D., M.S., Purdue University; B.A., Colgate University
 STEPHEN M. FRIEDMAN, Ph.D., M.A., University of California; B.A., College of William and Mary
 MARGARITA GARCIA, Ph.D., M.A., B.S., Columbia University
 ROBERT GOODKIN, Ph.D., Florida State University; B.A., Allegheny College
 HERBERT J. HAUER, Ph.D., New York University; M.A., Columbia University; B.A., New York University
 EDWARD J. HAUPT, Ph.D., New York University; B.A.E., University of Minnesota
 THERESA HERMAN-SISSONS, Ph.D., M.A., New School for Social Research; B.A., New York University
 MARK A. KOPPEL, Ph.D., M.A., Northwestern University; B.A., Columbia University
 MOIRA K. LEMAY, Ph.D., M.S., Pennsylvania State University; B.S., Queens College
 PAUL J. LOCHER, Ph.D., M.S., Temple University; B.S. Ed., Kutztown State College
 AGNES O'CONNEL, Ph.D., M.S., Rutgers • The State University; A.B., Douglass College
 SHARON OLSON, Ph.D., M.A., New School for Social Research; B.A., Depauw University
 MICHAEL PENDERGRASS, M.A., Wayne State University; B.A., Dickinson College
 THOMAS BIDDLE PERERA, Ph.D., M.A., A.B., Columbia University
 GEORGE S. ROTTER, Ph.D., New York University; B.A., Brooklyn College
 SAUNDRA, Ph.D., M.A., University of Maryland; B.A., Point Park College
 JEROLD S. SCHWARTZ, Ph.D., M.A., Yeshiva University; B.A., University of Pennsylvania
 JOHN SEYMOUR, Ph.D., M.A., New York University; B.S., William Paterson College
 ROLAND J. SIITER, Ph.D., Purdue University; M.A., Xavier University; B.A., Northwestern University
 JOAN SILVERSTEIN, Ph.D., New York University; M.S., University of Wisconsin; B.S., CCNY
 IRA R. SUGARMAN, Ph.D., M.S., Columbia University; B.A., New York University
 DAVID J. TOWNSEND, Ph.D., M.A., Wayne State University; B.A., University of Michigan
 RHODA K. UNGER, Ph.D., M.A., Harvard University; B.S., Brooklyn College
 DANIEL E. WILLIAMS, Ph.D., M.S., St. John's University; B.A., Seton Hall University
 PETER F. WORMS, Ed.D., Rutgers • The State University; M.S., B.B.A., CCNY

SOCIOLOGY

BARBARA CHASIN, Ph.D., University of Iowa; B.A., CCNY
 PETER FREUND, Ph.D., New School for Social Research; M.A., Queens College, B.A., University of Maryland
 LAURA GORDON, Ph.D., M.A., SUNY at Stony Brook; B.A., University of Michigan

BENJAMIN HADIS, Ph.D., M.A., University of California at Los Angeles; Licenciatura, University of Buenos Aires
 MARY HOLLEY, Ph.D., North Texas State University; M.A., Fisk University; B.A., Saint Augustine's College
 JENNIFER HUNT, Ph.D., Graduate Center CUNY; B.A., Sarah Lawrence College
 GILBERT KLAJMAN, M.A., Brandeis University; B.A., Brooklyn College
 JAY LIVINGSTON, Ph.D., Harvard University; B.A., Brandeis University
 GEORGE MARTIN, Ph.D., M.A., University of Chicago; B.A., Vanderbilt University
 MEREDITH McGUIRE, Ph.D., M.A., New School for Social Research; B.A., Eckerd College
 SAMUEL PRATT, Ph.D., University of Michigan; M.A., Michigan State University; B.S., University of Connecticut
 GILBERT ZICKLIN, Ph.D., M.A., University of California, Davis; B.A., Columbia University

SPANISH/ITALIAN

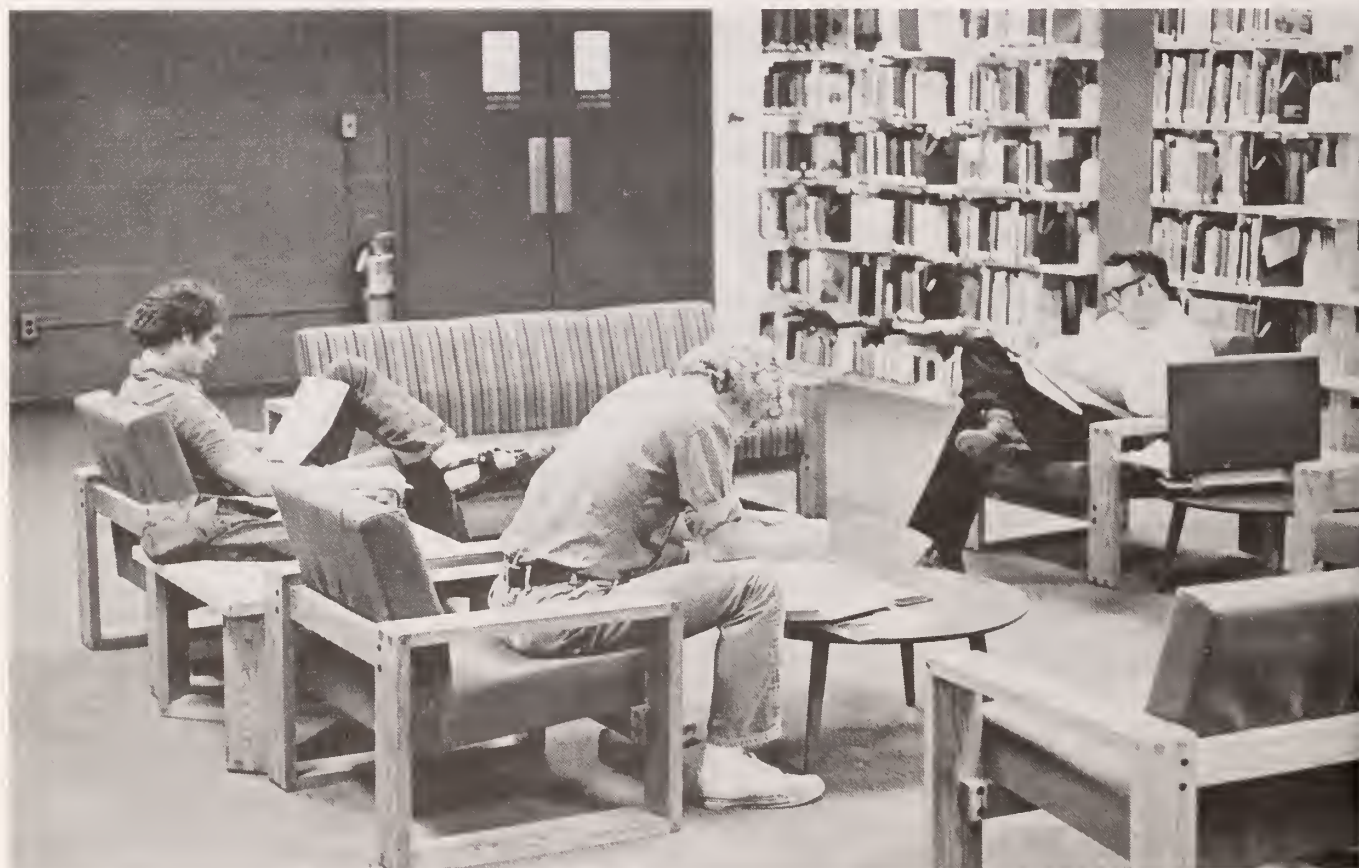
CLARA L. BARBEITO, *Doctor en Filosofía y Letras*, Havana University
 ITALO BATTISTA, M.A., Rutgers • The State University; B.A., CCNY
 VINCENZO Z. BOLLETTINO, Ph.D., M.A., Rutgers • The State University; B.A., City College, CUNY
 JOANNE ENGELBERT, Ph.D., New York University; M.A., Middlebury College; B.A., Adelphi College
 NORMAN H. FULTON, Ph.D., Licentiate University of Madrid; Ed.M., University of Rochester; B.A., Central Missouri State College
 MARILYN FRANKENTHALER, Ph.D., Rutgers • The State University; J.D., Seton Hall University; M.A., Hunter College; B.A., CCNY

JOHNG HWANG, Ph.D., M.A., University of Oregon; M.A., B.A., Stanford University
 LINDA G. LEVINE, Ph.D., M.A., Harvard University; B.A., New York University
 ROBERT J. McCORMICK, Ph.D., CUNY; M.A., Queens College; B.A., St. John's University
 ROSE S. MINC, Ph.D., M.A., Rutgers • The State University; B.A., Douglass College
 PAOLO POSSIEDI, *Dottore lettere* University of Padua (Italy)
 ANA M. RAMBALDO, Ph.D., M.A., New York University; B.A., Southern Methodist University
 HENRY RICHARDS, M.A., B.A., Columbia University
 JANET SUSI, M.A., Columbia University; M.A., Middlebury College; B.A., Douglass College
 JOHN A. ZAHNER, Ph.D., M.A., University of Arizona; B.A., Toledo University

SPEECH AND THEATRE

JOSEPH F. BELLA, M.F.A., Catholic University; B.F.A., Carnegie-Mellon University
 DORIS B. BIANCHI, M.A., M.Ed., Columbia University; B.S., Syracuse University
 WAYNE BOND, Ph.D., Southern Illinois University; M.A., West Virginia University; B.A., Alderson-Broadbudd College
 RAMON L. DELGADO, Ph.D., Southern Illinois University; M.F.A., Yale School of Drama; M.A., Dallas Theatre Center, Baylor University; B.A., Stetson University
 DANNIS B. EATON, M.A., Columbia University; B.A., Ball State University

JOHN A. FIGOLA, M.F.A., Carnegie-Mellon University; B.S., California State University of Pennsylvania
 EMERY J. HERMANS, Certificate, Nikolais School of Dance
 W. SCOTT MacCONNELL, M.A., Columbia University; B.A., Amherst College
 DIANNE McPHEARSON, B.F.A., Julliard School
 KARL R. MOLL, M.A., Pennsylvania State University; A.B., Westminster College
 GERALD LEE RATLIFF, Ph.D., Bowling Green State University; M.A., University of Cincinnati; B.A., Georgetown University
 LINDA J. ROBERTS, M.A., Columbia University; B.A., University of Bridgeport
 DEBORAH S. ROBERTSON, M.A., Columbia University; B.F.A., University of Utah
 JEROME ROCKWOOD, Ph.D., New York University; M.A., Western Reserve University; B.A., Brooklyn College
 ANN G. SEIDLER, Ph.D., M.A., New York University; B.A., Smith College
 DONALD E. SOBOLIK, M.A., B.A., University of Nebraska
 CHRISTOPHER STASHEFF, Ph.D., University of Nebraska; M.A., B.A., University of Michigan
 SUZANNE M. TRAUTH, Ph.D., M.A., Bowling Green State University; B.S., University of Dayton
 HOWARD P. TRAVIS, Ph.D., M.A., B.A., University of Michigan
 THOMAS VEENENDALL, Ph.D., University of Denver; M.A., West Michigan University; B.A., Michigan State University
 JONATHAN L. YODER, Ph.D., M.A., Northwestern University; B.A., Oberlin College



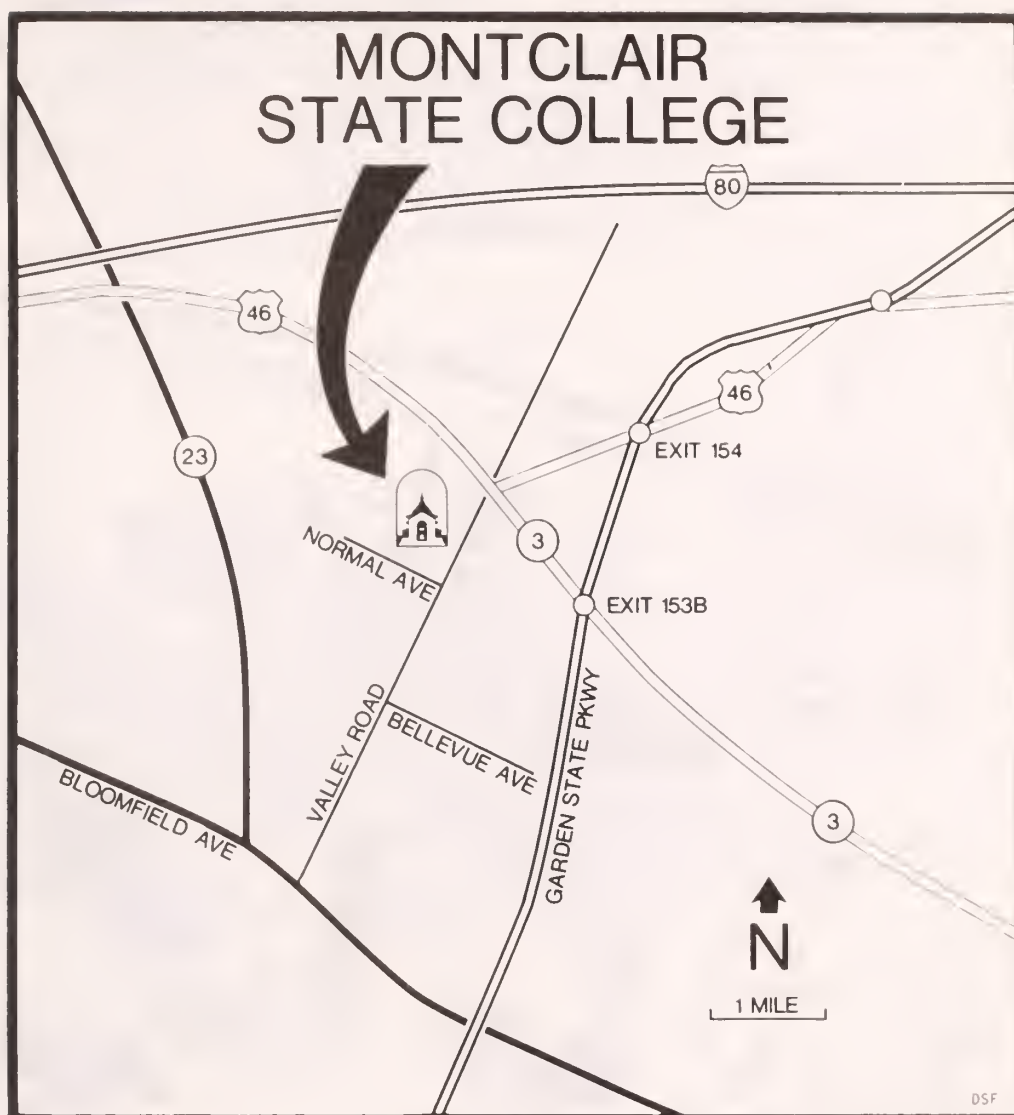
INDEX

About the College	i
Academic Calendar	iv
Academic Counseling	10
Academic Policies and Procedures	14
Accounting and General Business Education	36
ACCOUNTING, LAW, AND TAXATION	28
Accreditation and Membership	3
Acting/Directing	156
Activities, Student Affairs and	13
Administrative Officers	178
ADMISSIONS	5
Advanced Placement	14
Advisement	14
Afro-American Studies	170
Allied Health	84
Alumni Association	11
ANTHROPOLOGY	29
Archaeology	170
Asian Studies	168
Athletics	11
Attendance	15
Audiology	46
Audit Policy	15
Basic Skills	7, 15, 22
BIOLOGY	31
Black Student Cooperative Union	14
Board of Trustees	178
Bookstore	11
Broadcasting	155
Business Administration, Accounting	28
Business Administration,	
Finance and Quantitative Methods	63
Business Administration, Management	101
Business Administration, Marketing	103
Business Administration,	
Office Systems Administration	36
Business Administration,	
Retail Merchandising Management	37
Business Administration, School of	4
BUSINESS EDUCATION AND OFFICE	
SYSTEMS ADMINISTRATION	35
Calendar	iv
Campus Employment	11
Cancellation of Courses and Staffing	15
Career Services	11
CHEMISTRY	40
CLASSICS	42
Class One Concerts	14
Class Standing	15
CLEP	16
College Life Union Board	14
COMMUNICATION SCIENCES AND	
DISORDERS	46
Communication Theory and Practice	155
COMPUTER SCIENCE AND	
MATHEMATICS	104
Computer Services Center	12
CONSERVATION, NEW JERSEY SCHOOL OF	166
Consumer Affairs	90
Continuing Education, Center for	11
Cooperative Education	9, 170
Council for International Education	9
Council on International and National Affairs	14
Counseling, Academic	10
COUNSELING, HUMAN SERVICES AND	
GUIDANCE	47
Counseling, Psychological	12
Course Loads	15
Course Overlap	15
Credit by Examination and Experience	16
Credit for Life Experience	16
CURRICULUM AND TEACHING	48
Dance Performance	155
Degree Programs	2
Degree Requirements	19
Departmental Codes, Legend of	26
Dismissal	18
Distributive Education and General	
Business Education	36

ECONOMICS	50
EDUCATIONAL FOUNDATIONS	52
EDUCATIONAL LEADERSHIP	53
Educational Opportunity Fund	6, 9
Employment on Campus	11
ENGLISH	55
English as a Second Language, Teaching	99
English for Speakers of Other	
Languages (ESOL)	7
ENVIRONMENTAL, URBAN, AND	
GEOGRAPHIC STUDIES	60
Exemptions from Freshman English	16
Expenses, Student	8
Facilities and Resources	10
Faculty	178
Family and Child Studies	91
Fashion Studies	91
Fees and Tuition	8
Final Examinations	16
FINANCE AND QUANTITATIVE METHODS	63
FINANCIAL AID	9
Financial Support for the College	3
Fine and Performing Arts, School of	4
FINE ARTS	65
Food Service Management	91
Foods and Nutrition	91
Foreign Student Admission	6
FRENCH	77
Furlough	18
General Education Requirements (B.A./B.S.)	19
General Education Requirements (B.F.A./B.Mus.)	20
General Humanities	163
GEOGRAPHY/URBAN STUDIES	60
GEOSCIENCE AND PHYSICS	133
GERMAN AND SLAVIC	80
Goals	3
Grades and Standards	16
Graduate Credit Courses (Undergraduate)	18
Graduate Degree Programs	2, 49
Graduation, Final Evaluation for	16
Graduation Honors	16
Greek	44
Health Careers Program	171
HEALTH PROFESSIONS	84
Health Services	12
Hispanic Community Affairs	149
HISTORY	86
History of the College	3
HOME ECONOMICS	90
Honors List	17
Housing	13
Human and Intercultural Relations	
Requirement	22
Humanities and Social Sciences,	
School of	4
Human Relations Organization	14
Identification Cards	12
Independent Study	17
Industrial Education and Technology	95
INDUSTRIAL STUDIES	95
International Education, Center for	9
Intra-Collegiate Academic Programs	9
ITALIAN AND SPANISH	149
Journalism	55
La Campana	14
Latin	43
Latin American Student Organization	14
Latin American Studies	169
LAW, ACCOUNTING AND TAXATION	28
Leave of Absence	17
Legal Studies, Center for	12, 164
Library	12
LINGUISTICS	99
Major Concentration	2
Major Declaration	17
MANAGEMENT	101
MARKETING	103
Mathematical and Natural Sciences,	
School of	4

MATHEMATICS AND COMPUTER SCIENCE	104	ROTC	171
Media and Technology in Education	53	Russian	81
Media Center	12	SCHOLARSHIPS AND AWARDS	173
Minorities Culture Requirement	21	Schools of the College	4
Montclarion	14	Second Baccalaureate Degree	6
MUSIC	109	Second Careers	10
Music Therapy	112	Secretarial and General Business Education	36
NEW JERSEY SCHOOL OF CONSERVATION	166	SOCIOLOGY	145
Office Systems Administration	36	SPANISH AND ITALIAN	149
Officers of the College	173	Special Education	171
Panzer School Council	12	Special Programs	170
Paralegal Studies	164	Special Tutorial Program (STP)	10
Parking and Traffic	12	SPEECH AND THEATRE	155
Part-time Admission	6	Speech Pathology	46
PHILOSOPHY/RELIGION	119	Student Affairs and Activities	13
Physical Education and Health	84, 124	Student Affairs, Office of	13
PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES	122	Student Center	13
Physical Science	40	Student Government Association	13
PHYSICS/GEOSCIENCE	133	Student Intermural and Leisure Council	14
Plagiarism	17	Student Responsibility	18
Players	14	Study Abroad	9
Police and Security	13	Summer Sessions	13
POLITICAL SCIENCE	138	Suspension	18
Pre-Law Advisor	12	Teacher Certification Requirements	22
Pre-Law Studies	165	TEACHING AND CURRICULUM	48
Privacy Act	17	Television Center	13
Probation	18	THEATRE AND SPEECH	155
Professional Sequence for Teacher Certification	23, 49	Therapeutic Recreation	125
Professional Studies, School of	5	Toxicology	167
Public Administration	138	Transcripts	18
Psychoeducational Center	12	Transcultural Studies	168
Psychological Counseling	12	Transfer Admission Process	6
PSYCHOLOGY	141	Transfer Credit	18
QUANTITATIVE METHODS AND FINANCE	63	Tuition and Fees	8
Quarterly	14	Undergraduate Degree Programs	2
Reading	53	Undergraduate Degree Requirements	19
RECREATION AND LEISURE STUDIES	122, 124	Undergraduates in Graduate Programs	18
Refund and Withdrawal Policies	8	Upward Bound	10
Registration	17	URBAN STUDIES/GEOGRAPHY	60
RELIGION/PHILOSOPHY	119	Veteran's Credit	13, 18
Religious Facilities and Programs	13	Vocational-Technical Program	96
Repeated Courses	17	Weekend College	10
Requirements, Undergraduate Degree	19	Winter Session	10
Residence Facilities	13	Withdrawal from Courses	18
Residence Requirements	17	Withdrawal from College	18
Resources and Facilities	10	WMSC	14
Retail Merchandising and Management	37	Women's Center	13
Retention Standards	18	Women's Studies Minor	171
		Work Study Program	11
		World Cultures	168
		Writing Requirement, College	22

Directions to the Campus



BY CAR FROM:

Bloomfield Ave., Montclair: North on Valley Road (by fire department), 3.3 miles to Normal Ave. light, turn left.

Route 46 (East and West): Valley Road, Montclair exit (at Route 3 junction), south for approximately one mile to Normal Avenue light, turn right.

Route 3: Valley Road, Montclair exit (at Route 46 junction), south for approximately one mile to Normal Ave. light, turn right.

Garden State Parkway North: Exit 153B (left lane) to Route 3 West, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right.

Garden State Parkway South: Exit 154 to Route 46 West, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right.

New Jersey Turnpike: Exit 16W to Route 3, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right. Motorists traveling on the Turnpike South to Exit 11 may exit there to Garden State Parkway North.

Lincoln Tunnel: Follow to Rte. 3.

George Washington Bridge: Route 80 to Garden State Parkway South.

BY PUBLIC TRANSPORTATION FROM:

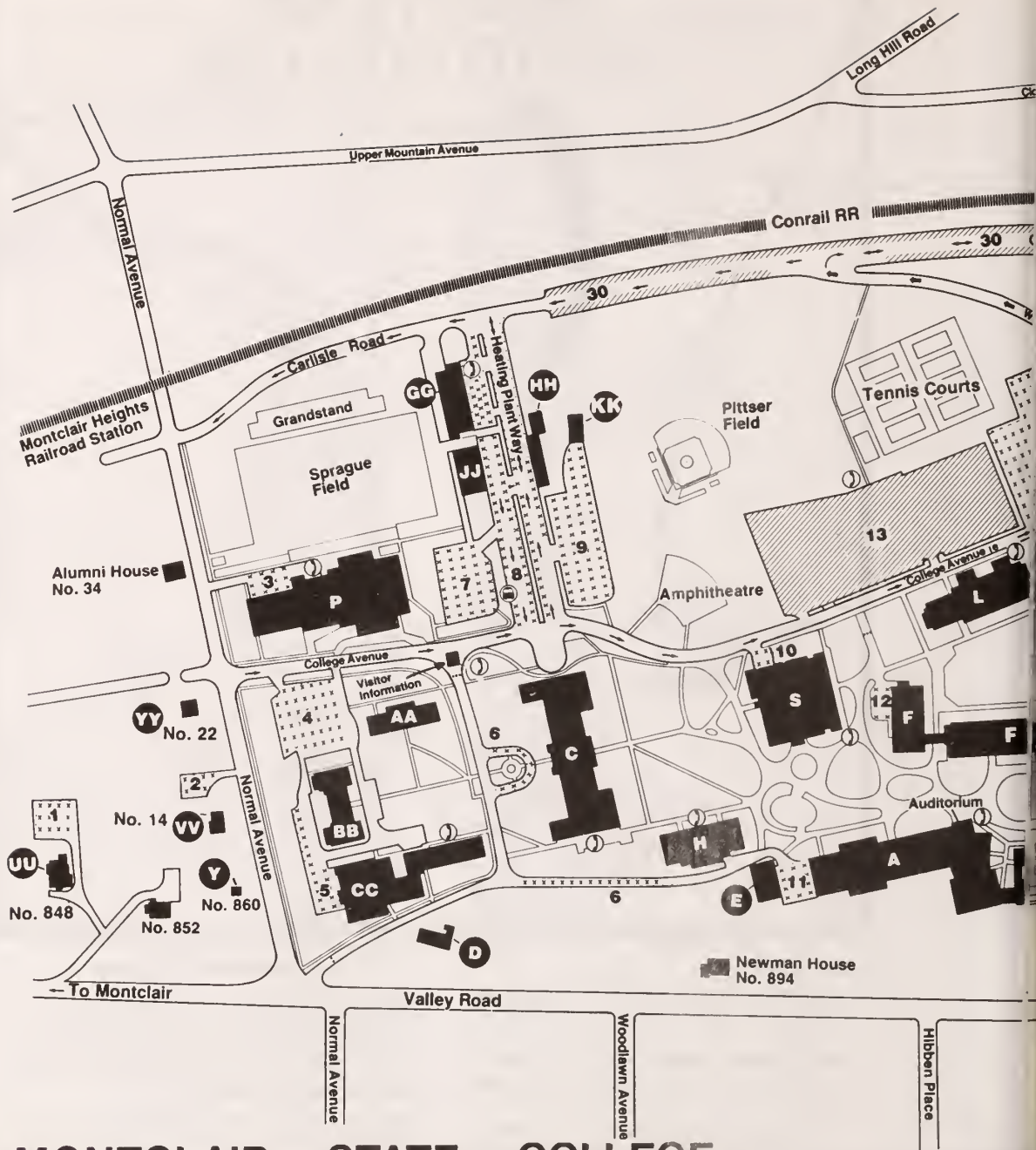
New York City (by bus): DeCamp Bus No. 66 leaves Platform 73, Port Authority Bus Terminal at half past the hour. Get off at Mt. Hebron and Valley Roads, turn right (north) on Valley and walk one long block to the Normal Avenue traffic light, then turn left to campus entrance.

New York City (by train): Take PATH service to Hoboken, transfer to Conrail, and get off at Montclair Heights Station at southwest corner of campus.

Newark: Transport of New Jersey Bus No. 60 originates at Bamberger's, Market and Washington Streets and terminates its run on campus. Every 17 minutes.

The Oranges: Trackless Transit Bus No. 64 originates at Veterans Administration Hospital, Tremont Avenue, East Orange, travels along main streets in the Oranges to Bloomfield Avenue, Montclair. Change to No. 60 at Montclair Center. Once an hour.

Paterson: Transport of New Jersey Bus No. 128 originates at Broadway Terminal, Paterson and goes to Bloomfield. Change to No. 60 at Bloomfield Center. Every 45 minutes.



MONTCLAIR STATE COLLEGE

PARKING

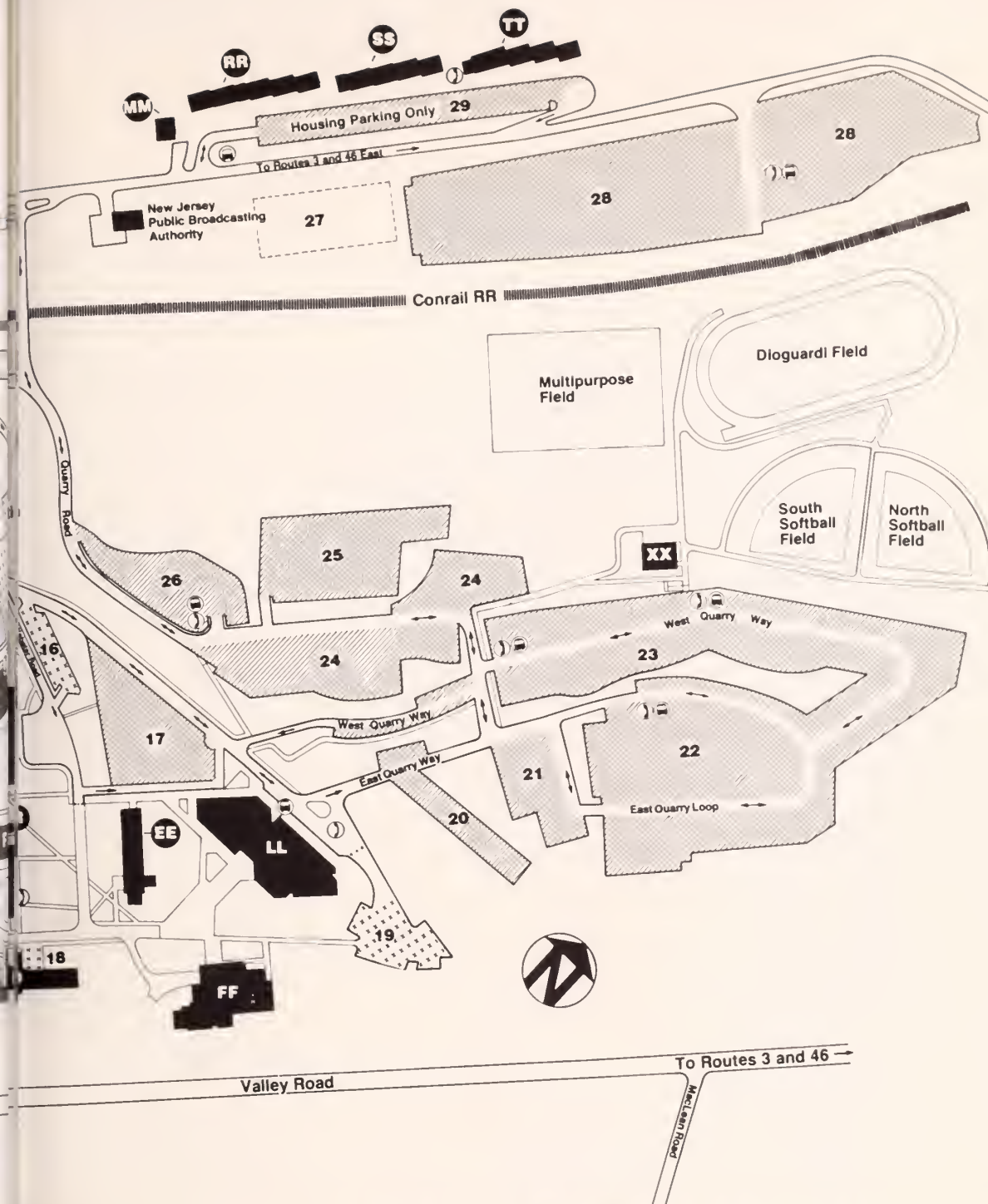
- 1 FACULTY and STAFF
- 2 FACULTY and STAFF
- 3 PHYSICAL EDUCATION and ATHLETIC DEPT.
- 4 FACULTY and STAFF
- 5 STUDENT HOUSING STAFF
- 6 VISITOR
- 7 FACULTY and STAFF
- 8 FACULTY and STAFF
- 9 FACULTY and STAFF (Compact Cars Only)
- 10 LIBRARY FACULTY and STAFF
- 11 FACULTY and STAFF
- 12 INDUSTRIAL ARTS DEPT. FACULTY and STAFF
- 13 STUDENT

- 14 FACULTY and STAFF
- 15 DISABLED
- 16 VISITOR
- 17 STUDENT
- 18 STUDENT HOUSING STAFF
- 19 STUDENT HOUSING STAFF
- 20 STUDENT
- 21 STUDENT
- 22 STUDENT
- 23 STUDENT
- 24 STUDENT
- 25 STUDENT
- 26 STUDENT
- 27 STUDENT

- 28 STUDENT
- 29 STUDENT
- 30 STUDENT

SYMBOLS

- ⓞ EMERGENCY PHONE
- Ⓢ SHUTTLE BUS STOP



UPPER MONTCLAIR N.J.

TELEPHONE: 201-893-4000

IGS

J. HALL
 MONUMENTAL HALL
 E and PERFORMING ARTS
 COLLEGE HALL—ADMINISTRATION & MISSIONS
 BRETH HOUSE—PSYCHOLOGICAL SERVICES
 TEMPORARY CLASSROOM ANNEX
 EY HALL
 PITRIDGE HALL—HUMANITIES
 REHEAD HALL
 BUSINESS ADMINISTRATION
 STUDENT CENTER
 TECH BUILDING
 C. CIA FINE ARTS BUILDING
 VACHERN MUSIC BUILDING

P PANZER SCHOOL CENTER—GYMNASIUM and SWIMMING POOL
 R DROP-IN CENTER
 S SPRAGUE LIBRARY
 V MALLORY HALL
 W RICHARDSON HALL—MATHEMATICAL & NATURAL SCIENCES
 Y CONTINUING EDUCATION
 AA CHAPIN HALL—PROFESSIONAL STUDIES CAMPUS POLICE
 BB RUSS HALL—SOCIAL SCIENCES
 CC FREEMAN HALL—STUDENT HOUSING
 DD STONE HALL—STUDENT HOUSING
 EE WEBSTER HALL—STUDENT HOUSING
 FF BOHN HALL—STUDENT HOUSING
 GG MAINTENANCE BUILDING

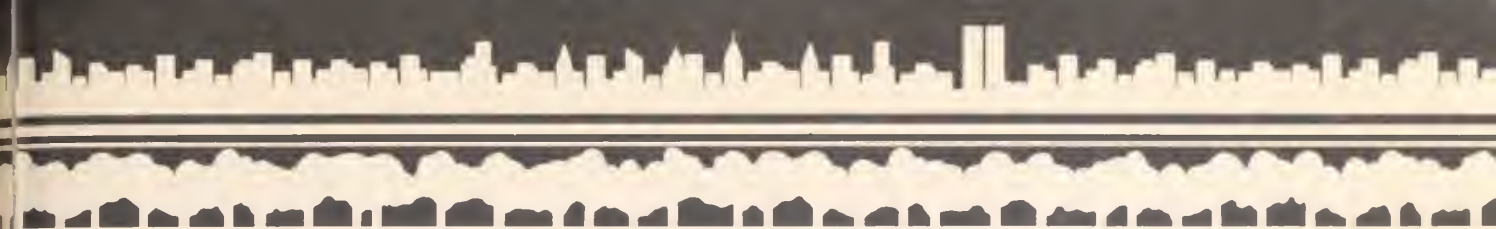
HH POWER AND ENERGY LABORATORY
 JJ HEATING PLANT
 LL BLANTON HALL—STUDENT HOUSING & HEALTH CENTER
 MMPSYCHO-EDUCATIONAL CENTER
 RR CLOVE RD. APTS. (100)—STUDENT HOUSING
 SS CLOVE RD. APTS. (200)—STUDENT HOUSING
 TT CLOVE RD. APTS. (330)—STUDENT HOUSING
 UU VAN REYPER/BOND HOUSE
 VV CONTINUING EDUCATION ANNEX
 XX RECREATION BUILDING
 YY FACULTY/STUDENT COOPERATIVE INC.



Office of Admissions
Montclair State College
Upper Montclair, N.J. 07043

5520C0
DOROTHY L FLEISHMAN
SPRAGUE LIBRARY

FOURTH CLASS BOOK RATE



MONTCLAIR STATE COLLEGE

**UNDERGRADUATE
CATALOG
1986-1988**



Montclair State College at a Glance

Location:

200-acre campus, at the intersection of Valley Road and Normal Avenue, Upper Montclair, New Jersey (Essex County), one mile south of intersection of Valley Road and Route 46. Main entrance on Normal Avenue.

Background:

Established in 1908, and is a state-supported, coeducational, four-year college of liberal arts and sciences. Has offered Master of Arts programs since 1930s and the Master of Business Administration since 1981.

Enrollment:

About 11,200 undergraduates and 2,800 graduate students in 1985. Students come from all New Jersey counties, from other states, and from foreign countries. Some 2,000 live on campus with the remainder living in off-campus accommodations or commuting from home.

Faculty:

The college has 462 full-time faculty members. About 75 percent have terminal degrees. Ratio of faculty to students is 1 to 17.

Accreditation:

Accredited by the Middle States Association of Colleges and Schools, and by the National Council for the Accreditation of Teacher Education.

Degrees Offered:

Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, Master of Arts, Master of Arts in Teaching, Master of Education and Master of Business Administration.

Facilities:

Ten major academic buildings, student center building, library, gymnasium, playing fields, administration building, and housing for 2,000 students in residence halls and apartments.

Costs:

Annual tuition and fees (1985-86): \$1,528. Annual room and board: \$3,264.

Financial Aid:

Some form of aid is provided to approximately 60 percent of qualified full-time students. Aid is available as loans, scholarships, grants, and employment.

Montclair State College is an Equal Opportunity/Affirmative Action institution. In compliance with relevant federal and state civil rights legislation, the College does not discriminate on the basis of sex, race, color, religion, national origin, age, or physical capability in the operation of its educational program or activities (admission, access to programs and course offerings, physical education, competitive and intramural athletics, counseling, student and other employment, use of facilities, and College sponsored extracurricular activities.)

Inquiries relating to equal opportunity/affirmative action issues may be directed to the offices of Student Affairs or Equal Opportunity/Affirmative Action. The Undergraduate Catalog of Montclair State College is published biennially and presents announcements of general information, general academic regulations, and the College's academic program extant at the date of publication. The College reserves the right to change any of its announcements, regulations or requirements at any time without notice or obligation. The Office of Academic Affairs is responsible for the preparation of the content of this publication.

Undergraduate Catalog 1986-1988

Admissions

203 College Hall
(201) 893-4444

Financial Aid

321 College Hall
(201) 893-4461

Registrar

204 College Hall
(201) 893-4376

Residence Facilities

411 Bohn Hall
(201) 893-4156, 5252

Statement on the Undergraduate Program

The Board of Trustees of Montclair State College reaffirms its belief that the liberal arts and sciences form the essential basis of an undergraduate program of higher education.

In an era of decreasing resources, diminished public support, and increased popular interest in vocationalism, there are strong pressures to succumb to temporary concerns, and in doing so to lose sight of the enduring and essential purpose of a college education. There are also economic and political forces which, if not constrained by thoughtful response, threaten the integrity of academic processes and the quality of academic standards of institutions of higher education everywhere.

The Board of MSC believes that the College has the special purpose of contributing to, critically examining, preserving and transmitting the culture of our society to succeeding generations, and that the protection of this purpose is the public trust for which we are primarily responsible. We believe that the progress of the College towards this goal has been exemplary, and in particular we applaud the steps already taken by the faculty and administration to maintain and enhance these values. Consistent with the policy and planning function of the Board, however, we believe that faculty and administration efforts might be enhanced by an understanding of what the Board sets forth as a vision of the undergraduate program by 1990. By that time, based upon the work of the faculty and administration, we hope to see:

1. a rigorous and comprehensive program of general education required of all students which includes not only advanced learning skills and preparation for effective citizenship, but which also fosters an appreciation of a shared human heritage leading to the enhancement of the quality of both personal and community life;
2. an enrollment reflecting a balance between those students majoring in liberal arts programs, and those in professional and career programs which in addition to their own strengths, are soundly rooted in and related to the strengths of our liberal arts departments;
3. support programs which assist underprepared students who share our goals to meet the demanding standards of which we think they are capable if suitably challenged, excited and educated;
4. ongoing processes of program review and evaluation in which the joint efforts of faculty, administration and Board ensure maintenance of the highest standards of quality;
5. a diverse student body reflecting different cultural and social backgrounds, but united by a common commitment to the academic values for which the College stands;
6. programs which strengthen the efforts of an able and dedicated faculty and which support the scholar's continuing need for intellectual and personal renewal.

In setting these general goals, the Board recognizes the difficult economic and political environment likely to face higher education in the future, and that many other institutions have chosen to confront these challenges in a manner different from our own. We believe, however that the need to create a distinctive mission and climate for the College and to prepare students fully for an uncertain but clearly difficult future requires us to make this commitment.

It is the Board's intent to view its future consideration of new policies and programs within the context of this statement, and to have prepared for campus discussion a brief annual report concerning activities and progress in each of the six areas.



Table of Contents

Academic Calendar	iv
About the College	1
Degree Programs and Concentrations	2
Schools of the College	4
Admissions	5
Tuition and Fees	8
Financial Aid	9
Intra-Collegiate Academic Programs	9
Resources and Facilities	10
Student Affairs and Activities	13
Academic Policies and Procedures	14
Requirements for Undergraduate Degree	19
ACADEMIC PROGRAMS BY DEPARTMENTS	30
Accounting, Law and Taxation	30
Anthropology	31
Biology	33
Business Education and Office Systems Administration	36
Chemistry	41
Classics	43
Communication Sciences and Disorders	47
Counseling, Human Services and Guidance	48
Curriculum and Teaching	50
Economics	52
Educational Foundations	54
Educational Leadership	55
English	57
Environmental, Urban and Geographic Studies	62
Finance and Quantitative Methods	64
Fine Arts	66
French	77
German and Slavic	80
Health Professions	83
History	86
Home Economics	89
Industrial Studies	94
Linguistics	98
Management	100
Marketing	102
Mathematics and Computer Science	103
Music	107
Philosophy and Religion	116
Physical Education, Recreation and Leisure Studies	119
Physics and Geoscience	129
Political Science	133
Psychology	136
Sociology	141
Spanish and Italian	144
Speech and Theatre	150
OTHER ACADEMIC PROGRAMS	160
College Honors Program	160
General Humanities	160
Legal Studies	161
New Jersey School of Conservation	163
Toxicology	164
Transcultural Studies	165
Special Programs	167
Appendix of Scholarships and Awards	172
Administration and Faculty	177
Index	
Directions to Campus	

Academic Calendar 1986-88

Fall Semester 1986

Registration/Orientation	August 25, 26, 27
Evening Registration	August 25, 26
Labor Day Holiday	August 30, 31, September 1
Classes begin	September 2
Classes	September 2-November 26
Thanksgiving Holiday	November 27-30
Classes	December 1-16
Examination Period	December 17-23
Christmas Holiday	December 24-January 4

Winter Session 1987

Late Registration	January 5
Classes	January 5-23

Spring Semester 1987

Registration/Orientation	January 20, 21, 22
Evening Registration (If the College is closed because of inclement weather during this period, the Registration Schedule moves forward by one day.)	January 20, 21
Classes begin	January 26
Classes	January 26-March 22
Spring Recess	March 23-29
Classes	March 30-April 16
Good Friday Holiday	April 17
Classes	April 20-May 10 (for Weekend College only)
	April 20-May 19 (for remainder of college)
Examination Period	May 15-17 (for Weekend College only)
	May 20-22, 26-27 (for remainder of college)
Memorial Day Holiday	May 23-25
Commencement	May 28

Summer Sessions 1987

Registration	May 29, June 8, 9
Pre-Session	June 1-12 (10 Sessions)
Eight-Week Session (No Friday Classes)	June 15-August 6
Six-Week Session (No Friday Classes)	June 29-August 6
Holiday	July 4
Post-Session	August 10-21

Fall Semester 1987

Registration/Orientation	August 24, 25, 26
Evening Registration	August 24, 25
Labor Day Holiday	September 5, 6, 7
Classes begin	September 1
Classes	September 1-November 25
Thanksgiving Holiday	November 26-29
Classes	November 30-December 16
Examination Period	December 17-23
Christmas Holiday	December 24-January 3

Winter Session 1988

Late Registration	January 4
Classes	January 4-22

Spring Semester 1988

Registration/Orientation	January 19, 20, 21
Evening Registration	January 19, 20
(If the College is closed because of inclement weather during this period, the Registration Schedule moves forward by one day.)	
Classes begin	January 25
Classes	January 25-March 27
Spring Recess	March 28-April 3
Classes	April 4-May 16
Examination Period	May 17-23
Commencement	May 24

Summer Sessions 1988

Registration	May 26, June 6, 7
Pre-Session	May 31-June 10 (9 Sessions)
Eight-Week Session (No Friday Classes)	June 13-August 4
Six-Week Session (No Friday Classes)	June 27-August 4
Holiday	July 4
Post-Session	August 8-19

**THE COLLEGE RESERVES THE
RIGHT TO MODIFY THIS CALENDAR**

About the College

Life is a challenge!

Montclair State helps students to meet it by developing awareness, creativity, and maturity. Academic and career counselors help the student to choose a program and major that explore special interests and potential to attain the degree goal, that clarify and strengthen career directions.

The College offers a broad range of arts, sciences, and professional and business programs, and four undergraduate degrees, in Bachelor of Arts, Science, Fine Arts, or Music; graduate programs lead to the Master of Arts, Master of Arts in Teaching, Master of Business Administration or Master of Education degrees. The academic programs include more than forty areas of study, as well as additional interdisciplinary programs.

Current enrollment is approximately 15,000, distributed between undergraduate and graduate programs. Students come to Montclair State College from a variety of backgrounds; although most are from New Jersey, many are from other states, and countries, as well. The majority are commuters. It is easy to meet new people, make new friends, share new experiences.

The College has a faculty member for each seventeen students, and most classes are taught in groups of no more than twenty-five. All faculty are available to provide extra help and advice to students.

The suburban location fosters a warm, comfortable community, and proximity to New York City provides for unique and exciting cultural opportunities, at museums, concerts, and plays. Montclair State College itself has been designated a Center of Excellence for the Fine and Performing Arts in New Jersey by the New Jersey Department of Higher Education.

Montclair State is expanding through new additions and services, including an enlarged student center, housing units, and an apartment complex, and shuttle buses to ride students from parking areas to the main campus grounds.

Since it is a state-supported institution, Montclair State College maintains low tuition and fees. Financial aid is available to qualified students in the form of loans, grants, and/or employment, amounts determined by need and funds available.

Life is a challenge. Come meet it at Montclair State College



Degree Programs and Concentrations*

ADMINISTRATION AND SUPERVISION	M.A.	EDUCATION	M.Ed.
Educator Trainer		EDUCATIONAL PSYCHOLOGY	M.A.
ALLIED HEALTH	B.S.	Behaviorally Disturbed	
ANTHROPOLOGY	B.A.	Human Sexuality	
BIOLOGY	B.S., M.A.	ENGLISH	B.A.
BUSINESS ADMINISTRATION	B.S., M.B.A.	ENGLISH AND COMPARATIVE LITERATURE	M.A.
Accounting		ENVIRONMENTAL STUDIES	M.A.
Finance		Environmental Education	
Management		Environmental Health	
Marketing		Environmental Management	
BUSINESS ADMINISTRATION	B.S.	Environmental Science	
General Business		FINE ARTS	B.A., M.A.
Office Systems Administration		Art History	
Quantitative Methods		Education	
Retail Merchandising and Management		Studio	
BUSINESS ADMINISTRATION	M.B.A.	Studies in the Visual Arts	
Business Economics		FINE ARTS	B.F.A.
Quantitative Analysis		Studio	
BUSINESS EDUCATION	B.S., M.A.	FRENCH	B.A.
Distributive Education		Translation	
CHEMISTRY	B.S., M.A.	FRENCH	M.A.
CLASSICS	B.A.	GENERAL HUMANITIES	B.A.
COMMUNICATION SCIENCES AND DISORDERS	B.A.	GEOGRAPHY	B.A.
COMMUNICATION SCIENCES AND DISORDERS	M.A.	Urban Studies	
Audiology		GEOSCIENCE	B.S., M.A.
Early Childhood Special Education		GERMAN	B.A.
Hard of Hearing and Deaf		HEALTH EDUCATION	B.S.
Learning Disabilities (Teacher-Consultant)		Community Health Services	
Speech-Language Pathology (Correctionist)		HEALTH EDUCATION	M.A.
COMPUTER SCIENCE	B.S., M.A.	HISTORY	B.A.
COUNSELING AND GUIDANCE	M.A.	HOME ECONOMICS	B.A.
Human Services		Consumer Affairs	
DANCE	B.F.A.	Family Child/Nursery School	
ECONOMICS	B.A.	Fashion Studies	
		Home Economics Education (Comprehensive)	
		HOME ECONOMICS	B.S.
		Food and Nutrition	
		Foodservice Management	
		HOME ECONOMICS	M.A.
		Family Relations/Child Development	
		Home Economics Education (Comprehensive)	
		Home Management/Consumer Economics	
		INDUSTRIAL EDUCATION AND TECHNOLOGY	B.S.
		Industrial Studies	
		INDUSTRIAL EDUCATION AND TECHNOLOGY	M.A.
		ITALIAN	B.A.
		LATIN	B.A.

*Additional minors and certification programs are offered. Check index for reference to appropriate sections of catalog.

LINGUISTICS	B.A.
MATHEMATICS	B.S.
Applied Mathematics	
MATHEMATICS	M.A.
Computer Science	
Mathematics Education	
Pure and Applied Mathematics	
Statistics	
MUSIC	B.A.
History	
Music Education (Comprehensive)	
MUSIC	B. Mus.
Performance	
Theory Composition	
MUSIC	M.A.
Music Education (Comprehensive)	
Performance	
Theory Composition	
MUSIC THERAPY	B.A.
PHILOSOPHY	B.A.
PHYSICAL EDUCATION	B.S.
Adult Fitness Program	
PHYSICAL EDUCATION	M.A.
PHYSICS	B.S.
POLITICAL SCIENCE	B.A.
PSYCHOLOGY	B.A.
Community Psychology	
PSYCHOLOGY	M.A.
Industrial and Organizational Psychology	
READING	M.A.
RECREATION AND LEISURE STUDIES	B.S.
Commercial Recreation and Tourism	
Community Recreation and Leisure Services	
Outdoor Recreation and Recreational Resource Management	
Therapeutic Recreation	
RELIGIOUS STUDIES	B.A.
SOCIAL SCIENCES (ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, HISTORY, POLITICAL SCIENCE, SOCIOLOGY, URBAN STUDIES)	M.A.
SOCIOLOGY	B.A.
SPANISH	B.A.
Translation	
SPANISH	M.A.
SPEECH AND THEATRE	B.A.
Broadcasting	
Communication Theory	
Dance Performance	
Speech/Theatre Education (Speech Arts/Dramatics)	
Theatre	
SPEECH AND THEATRE	M.A.
Public Media Arts	
Speech/Theatre Education (Speech Arts/Dramatics)	
Technical Theatre, Acting and Directing	

THEATRE	B.F.A.
Acting/Directing	
Design/Technical Theatre	
TEACHING	M.A.T.
Teaching Middle School Philosophy	
TOXICOLOGY	B.S.
TRANSCULTURAL STUDIES	B.A.
Asian Studies	
Latin American Studies	
World Cultures	

ACCREDITATION AND MEMBERSHIPS

The College is accredited by the Middle States Association of Colleges and Schools. In addition, the National Council for the Accreditation of Teacher Education has granted accreditation for the preparation of elementary and secondary school teachers as well as school service personnel.

The College is a member of the Council of Graduate Schools in the United States, American Association of State Colleges and Universities, American Council on Education, American Association of Colleges for Teacher Education, New Jersey Association of Colleges and Universities, and North American Association of Summer Sessions. Women graduates are accepted for membership in the American Association of University Women.

HISTORY

Founded in 1908 as a normal school, the College began immediately to establish a reputation for academic excellence. When it became Montclair State Teachers College, its purpose was exclusively to prepare secondary school teachers. Later, part-time and extension courses were added and the summer sessions began. The New Jersey State Board of Education then empowered the College to give graduate courses and grant the master's degree. Eventually the College merged with Panzer College of Physical Education and Hygiene and began to offer a new major, Physical Education and Health.

In 1958, the official name was changed to Montclair State College and the academic thrust was directed more strongly toward arts and sciences programs. Since then, the College has placed increasing emphasis on the education of future scholars, government and business administrators and managers, lawyers, physicians, dentists, scientists and researchers, journalists and writers. At the same time, it has maintained its traditional excellence in the preparation of secondary school teachers.

The New Jersey Higher Education Act of 1966 transferred the College's governance from the State Department of Education to the College's own board of trustees. The board consists of nine citizens of New Jersey appointed by the State Board of Higher Education and confirmed by the governor. The president of the College is a member, ex officio. Faculty, student and alumni representatives are elected by their peers to meet with the board. This change in governance gave the College increased independence in the management of its programs.

FINANCIAL SUPPORT

The College derives its primary income from the State of New Jersey, supplemented by grants from government agencies and private foundations, and by gifts from friends, alumni, corporations and other private philanthropic sources, as well as student tuition and fees.

GOALS

Since the establishment of its own board of trustees, the College's programs have constantly expanded. Today, as a result of extensive programs on graduate and undergraduate levels, the College is an institution offering a broad range of arts and sciences as well as professional programs to students with many varying needs, interests and career aims.

Throughout its existence, Montclair State College has been loyal to the basic needs of higher education by recruiting a scholarly, dedicated faculty; selecting earnest students of high academic standing; devising and operating as full and thorough a curriculum as possible; providing extracurricular experiences to extend and enrich the cultural horizons of the College community; keeping alert for opportunities to make the educational process increasingly effective, and emphasizing the importance of the individual in an expanding society. Its historical commitment to the preparation of teachers continues.

Schools of the College

School of Business Administration

Dean: Suresh A. Desai, Ph.D.

The undergraduate programs of the School of Business Administration seek to develop the student's abilities to assume the responsibilities of business management. The emphasis is on developing skills and attitudes of mind that will enable the student to operate effectively as a manager in this fast changing, complex world.

The programs provide broad training in liberal arts and sciences, an understanding of the functional areas of business and of disciplines relevant to the study of business management, and specialization in an area of concentration.

Departments within the School are:
ACCOUNTING, LAW AND TAXATION
BUSINESS EDUCATION AND OFFICE
SYSTEMS ADMINISTRATION
ECONOMICS
FINANCE AND QUANTITATIVE METHODS
MANAGEMENT
MARKETING

School of Fine and Performing Arts

Dean: Donald A. Mattran, M.Mus.

Montclair State College is a designated Center of Excellence for the Fine and Performing Arts. Its School of Fine and Performing Arts offers graduate and undergraduate programs in fine arts, music, speech, theatre, dance, broadcasting and communication. In addition, the School includes a Music Preparatory Division, which offers instruction to children from age 3 through high school, and the Office of Cultural Programming which presents major dance, music, theatrical, literary and visual art events. The School also maintains and provides a variety of exhibits in the College Art Gallery.

The School of Fine and Performing Arts provides professional training and education for students seeking careers in the arts, education, public service and management. It presents cultural events and offers courses and experiences in the arts for the enrichment of campus and community life. The resources of the School are taken to the community in the form of chamber music, dance, concerts, lectures and demonstrations. The School seeks to stimulate public interest in the arts and to encourage research, creative work and experimentation in the arts.

Departments within the School are:

FINE ARTS
MUSIC
SPEECH AND THEATRE

School of Humanities and Social Sciences

Dean: Philip S. Cohen, Ph.D.

Although they offer several programs with specific career objectives, the departments that comprise the School of Humanities and Social Sciences have traditionally been concerned with the activities and issues central to the liberal arts and general education.

Each department offers at least one major program leading to the Bachelor of Arts degree. Teacher certification is available in appropriate fields.

The School continuously examines its curriculum to strengthen current programs and to reflect new directions. It also provides numerous opportunities for internship training in industrial, clinical, governmental, and educational settings, including the Communications Disorders Center and the Psychoeducational Center located on campus. Interdisciplinary and applied minor programs (e.g. legal studies), whereby students may obtain a broad liberal education along with specific career skills are encouraged.

In its brief history, the School of Humanities and Social Sciences has established a unique identity based upon diversity within a unified, organic whole. Its broad spectrum of departments and programs embraces a variety of methods, content and organization, each bearing a special relationship to the others.

Departments within the School are:

ANTHROPOLOGY
CLASSICS
COMMUNICATION SCIENCES AND DISORDERS
ENGLISH
ENVIRONMENTAL, URBAN AND
GEOGRAPHIC STUDIES
FRENCH
GERMAN AND SLAVIC
HISTORY
LINGUISTICS
PHILOSOPHY AND RELIGION
POLITICAL SCIENCE
PSYCHOLOGY
SOCIOLOGY
SPANISH AND ITALIAN

School of Mathematical and Natural Sciences

Dean: Richard A. Lynde, Ph.D.

The programs within the School of Mathematical and Natural Sciences are designed to provide a sound foundation for post-baccalaureate work in professional or graduate school as well as careers in private business and industry and government agencies. In addition, the School is strongly committed to enhancing the understanding of the mathematical and natural sciences within the College community through a variety of activities including general education and collateral courses, guest lectures and symposia.

The undergraduate research program provides many students with a unique opportunity to learn how science is accomplished. Under the direction of knowledgeable and dedicated mentors, students have access to unusually extensive facilities and equipment including scanning and transmission electron microscopes, a cell culture laboratory, a fourier transform nuclear magnetic resonance spectrometer, a gas chromatograph/mass spectrometer and an X-ray diffraction spectrometer. The Academic Computing Network provides access to an IBM 3033 mainframe, a DEC VAX 11/780 minicomputer, and a variety of DEC, IBM, and Apple minicomputers.

In conjunction with the University of Medicine and Dentistry of New Jersey in Newark, the School offers a major in toxicology, a unique interdisciplinary major of special interest to residents of New Jersey.

Departments within the School are:

BIOLOGY

CHEMISTRY

MATHEMATICS AND COMPUTER SCIENCE

PHYSICS AND GEOSCIENCE

School of Professional Studies

Dean: Nicholas M. Michelli, Ed.D.

The School of Professional Studies offers a wide variety of programs leading to professional careers in private industry, government agencies, non-profit organizations, and public and private schools. All programs in the School are firmly grounded in the liberal arts, and include the opportunity for field based internships. Graduate degree programs are offered by all departments.

The School is responsible for the coordination of the college-wide teacher education program. A number of research and service centered projects are operated by the School, including the Life Skills Center, the Center for the Study of Human Sexuality, the Reading and Study Skills Center and Project THISTLE. In addition, the New Jersey School of Conservation, one of the largest environmental and outdoor education centers in the world, is part of the School of Professional Studies.

Departments within the School are:

COUNSELING, HUMAN SERVICES AND GUIDANCE

CURRICULUM AND TEACHING

EDUCATIONAL FOUNDATIONS

EDUCATIONAL LEADERSHIP

HEALTH PROFESSIONS

HOME ECONOMICS

INDUSTRIAL STUDIES

PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES

Admissions

Address requests for application forms and inquiries concerning admission to: Director of Admissions, Montclair State College, Upper Montclair, New Jersey 07043. Completed applications should be returned to this address accompanied by a \$10.00 non-refundable fee. Decisions are announced on a rolling basis beginning in October, until all spaces are filled.

All admissions are made without regard to an applicant's financial circumstances, sex, race, age, religion, national origin, or physical handicap.

Admission Requirements

Full-time Freshmen

1. An application should be completed and returned as early in the senior year as possible, but no later than March 1.
2. The Scholastic Aptitude Test (SAT) should be taken preferably in November or December, but not later than January of the senior year. The student should request that the College Board forward the results to Montclair State College (College Board Code number 2520).

3. The student is required to have a certificate of graduation from an approved secondary school. A High School Equivalency Certificate is acceptable. Sixteen subject units must be completed according to the following breakdown:

English	4
Social Studies	2
Mathematics*	3
Science (laboratory)	2
Foreign Language	2
Electives (in English, social studies, science math or foreign language)	3
Total	16

*Admission to computer science requires 4 years of mathematics including trigonometry. Admission to business administration requires Algebra II.

4. Students who wish to enter a specialized field of study are assumed to have prepared for it during the high school years. Achievement scores, though not required, are useful in demonstrating area strength and may be submitted with application materials. Admission to the departments of Fine Arts, Music, or Speech and Theatre is gained through departmental tests, auditions, or interviews. Admission to Montclair State College does not guarantee acceptance into a particular department.

5. Application and admission dates for full-time freshmen.

	Completed application on file by:	Supporting documents due by:
Admission for:		
Fall semester	March 1	March 15
Spring semester	November 1	November 10

6. Accepted full-time students are required to pay a non-refundable \$50 fee by May 1 to hold their places in the class.

Transfer Students

1. Approximately one-third of new students entering Montclair each year have attended another college.

To be eligible for transfer admission, a student is required to have completed a minimum of 15 credits with at least a 2.00 (C) average at another accredited college. Specific academic programs may have additional requirements. Transcripts of high school and all previous college records are to be forwarded to Montclair State College.

2. Transfer students may attend on either a full- or part-time basis. Full-time students must choose a major. A departmental interview may be required.

3. Application and admission dates for full-time transfer students:

	Completed application on file by:	Supporting documents due by:
Admission for:		
Fall semester	May 1	May 15
Spring semester	November 1	November 10

4. Transfer students desiring part-time admission follow the application dates listed below for part-time students.

Part-Time Students

1. Part-time undergraduate study at Montclair State College offers degree program opportunities to students whose responsibilities limit the time they are able to devote to academic pursuit. A student may also apply to attend classes with no specific degree objective. A maximum of 9 credits per semester may be taken. Although part-time students may register for courses in the day, evening, or weekends, students whose personal schedules will only permit them to take courses in the evening should be aware that only the following majors are currently available after 4:30 p.m. Monday through Thursday:

Allied Health*
Anthropology
Business Administration

Computer Science
Economics
English
Environmental, Urban and Geographic
Studies
History
Home Economics
Industrial Education
Mathematics
Political Science
Psychology
Sociology
Transcultural Studies

*Limited to transfer students from medical related A.A. and A.A.S. degree programs only.

2. Application and admission dates for part-time students:

	Completed application on file by:	Supporting documents due by:
Admission for:		
Fall semester	July 15	July 30
Spring semester	November 15	December 1

Educational Opportunity Fund (E.O.F.) Students

1. The Educational Opportunity Fund (E.O.F.) Program at Montclair State College extends the opportunity to attend college to the individual who has potential to succeed, but lacks the educational and financial resources to gain admission through ordinary procedures.
2. Applicants to the E.O.F. Program must be seeking full-time admission, residents of New Jersey for at least one year, from an educationally and economically disadvantaged background, and ineligible for admission by ordinary standards. Counseling, tutorial services and a six-week pre-college summer program are mandatory components of the Program. E.O.F. assists students in adjusting to college life and competing at the college level.

3. E.O.F. Program applicants file an application for admission to the College along with the Financial Aid Questionnaire according to the full-time freshman application date (March 1) for fall semester admission. In addition, complete the New Jersey Financial Aid Form (N.J.F.A.F.) and forward a copy to the Financial Aid Office, Montclair State College.

Family Gross Annual Income Limitations for Dependent Student Eligibility

Number of Persons in Household	Family Gross Annual Income Limitation
2-3	\$12,000
4	13,670
5	15,340
6	16,820
7	18,300
8	19,780
more than 8	Add \$1,480 for each additional household member.

4. Independent students may also qualify and should contact the Financial Aid Office regarding income limitations for eligibility.

5. Application and admission dates for E.O.F. students:

	Completed application on file by:	Supporting documents due by:
Admission for:		
Fall semester	March 1	March 15

6. Further information may be obtained through the Educational Opportunity Fund Office, College Hall, Room 304-C, telephone (201-893-4384).

International Students

Students from foreign countries file an application for admission through the Office of Admissions.

Students whose native language is not English are required to submit scores from the Test of English as a Foreign Language. Since the I-20 form can be granted only to accepted full-time students, candidates from foreign countries should be aware that they must apply for full-time rather than part-time admission.

Application and admission dates for full-time International Students:

	Completed application on file by:	Supporting documents due by:
Admission for:		
Fall semester	April 1	April 15
Spring semester	November 1	November 10

Second Baccalaureate Students

1. Students who have been awarded a baccalaureate degree may obtain a second bachelor's degree in most non-teaching majors at Montclair State. Business administration is not available. A minimum of 32 semester hours must be completed at Montclair State College after admission to a second baccalaureate program. The academic departments determine the exact number of semester hours of major and collateral courses to be completed for the second bachelor's degree. Credits earned through this program are considered undergraduate and are assessed at undergraduate tuition and fee rates. These credits are not applicable toward a higher degree at a later date.
2. Students are eligible to apply for admission to a second baccalaureate degree program if they have graduated from an accredited four-year college with a minimum cumulative grade point average of 2.50 based upon a possible 4.00 system.
3. Applications and admission dates for second baccalaureate students:

	Completed application on file by:	Supporting documents due by:
Admission for:		
<i>Full-time Students</i>		
Fall semester	May 1	May 15
Spring semester	November 1	November 10
<i>Part-time Students</i>		
Fall semester	July 15	July 30
Spring semester	November 15	December 1

Weekend College Students

Montclair State offers students the opportunity to pursue their education during the weekend. Many Weekend College students are Spanish-speaking and bilingual, or English-speaking seeking valuable cross-cultural contact.

Students attend classes on Friday evening or during the day on Saturday and Sunday. Those who speak English as a second language may enroll in intensive courses to gain college-level proficiency in English. Classes are conducted in both English and Spanish. Majors available to the Weekend College students are Sociology and Spanish. A student who has earned less than 36 credits may apply as an undeclared major.

Application and admission dates for Weekend College students.

	Completed application on file by:	Supporting documents due by:
Admission for:		
Fall semester	July 1	July 30
Spring semester	November 1	November 10

Second Careers Students

- Adults over twenty-five years of age who wish to begin or continue their college education part-time or full-time may receive assistance and support through the Second Careers program.
- Individuals who have never attended college before take the College Level Examination Program (CLEP) general examinations for possible advanced standing credits and also enroll in a two-credit Reentry Seminar.
- Individuals reentering college through the Second Careers program may not have earned previously more than 30 transferable credits nor may they have been matriculated students at another college during the two years immediately prior to admission to Montclair State College.

- Application and admission dates for Second Careers program:

	Completed application on file by:	Supporting documents due by:
Admission for:		
<i>Full-time Students</i>		
Fall semester	May 1	May 15
Spring semester	November 1	November 10
<i>Part-time Students</i>		
Fall semester	July 15	July 30
Spring semester	November 15	December 1

- Further information may be obtained through the Second Careers Office, College Hall, Room 306, telephone (201-893-4431).

Basic Skills

The College expects all students to demonstrate proficiency in writing, reading, mathematics, and speech. The New Jersey College Basic Skills Placement Test (NJCBSP) is administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State College will be assigned a test date and registration will not be completed for entering freshman students until the Basic Skills test scores are in. Developmental courses in reading, writing, and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSP. Students are expected to take the required developmental courses during their first semester at MSC and MUST SATISFACTORILY COMPLETE THESE COURSES DURING THE FRESHMAN YEAR. Students may consult the Basic Skills Office for a fuller description of the program.

Provisions for Non-Native Speakers of English

Non-native speakers of English will be given a Placement test for English for Speakers of Other Languages (ESOL). Those who achieve a score which indicates a need for ESOL instruction will enroll in ESOL courses instead of Basic Composition or Freshman Composition and will be exempted from their Basic or Freshman Composition requirement until the necessary ESOL courses are completed. Students enrolled in ESOL courses should not take the English portions of the New Jersey Basic Skills Exam until their last semester of ESOL. ESOL Placement Tests are usually given in June, August, and January.



Tuition and Fees

In order to qualify for the in-state tuition rate, the student, parent(s), or guardian(s) upon whom the student is financially dependent must have lived within the State of New Jersey for a continuous period of one year immediately prior to enrollment. (N.J.S.A. 18:62) All foreign exchange students are considered as non-residents for tuition purposes, regardless of where they reside while attending MSC. Any questions concerning residency status should be directed to the Business Office.

Tuition and fees are subject to change without prior notice.

Tuition

Undergraduate:	
Resident	\$37.00 per semester hour
Non-resident	\$57.00 per semester hour

Fees

General Service Fee	\$1.75 per semester hour
Student Building Fee	\$6.25 per semester hour
Student Government Association Fee	\$2.00 per semester hour (Maximum: \$24.00 per registration)
Athletic Fee	\$1.25 per semester hour

Special Fees

Late Registration Fee: for students whose initial registration for the semester is during late registration	\$15.00
Late Payment and/or Dishonored Check Fee	\$15.00
Music Fees: Part-time and graduate students registering for applied music courses and private study in composition pay regular tuition and fees, plus \$150 per applied music course.	
Parking Fee	\$20.00 per year
I.D. Card Replacement Fee (lost card)	\$5.00
Library Fines: overdue books, periodicals, etc.	\$.05 per day
Student Teaching Fee	\$60.00
Transcript Fee	\$2.00 per copy

Refund of Tuition and Fees

Tuition and fees are refunded in full if classes are discontinued by the College.

	Per Cent Refunded
Withdrawal before course begins	100%
Withdrawal during first third of course	50%
Withdrawal after the first third of course	none

Refunds for short term courses will be calculated in the same manner at the time of withdrawal.

Students are not permitted to withdraw from courses after the midpoint of the semester. In computing refunds, the date of withdrawal is the date on which the Office of the Registrar receives a written notice from the student or from the date of the postmark for those received through the U.S. mail.

Summary of Expenses

Estimated tuition, fees and expenses* for students attending Montclair State College are as follows for the nine month September-May academic year for a student taking 32 credits:

	New Jersey Communting Student	New Jersey Student Residing Away From Home	Out-of-State Student Residing Away From Home
Tuition	\$1184.00	\$1184.00	\$1824.00
General Service Fee	56.00	56.00	56.00
Athletic Fee	40.00	40.00	40.00
Student Government Association	48.00	48.00	48.00
Student Union Building Fee	200.00	200.00	200.00
Student Health Insurance (Optional)	60.00	60.00	60.00
Subtotal (payable to College)	1588.00	1588.00	2228.00
Textbooks and Supplies (Estimated)	350.00	350.00	350.00
College Housing (Estimated)	-	2368.00	2368.00
Meals (Estimated) Maximum Meal Plan	-	992.00	992.00
Personal Expenses (Estimated)	850.00	850.00	850.00
Total	\$2788.00	\$6148.00	\$6788.00

All Tuition and Fees Are Subject to Change

*Tuition, fees and expenses based upon 1985-86 figures.

Financial Aid

The Office of Student Financial Aid provides financial assistance to eligible students through the following:

Federally Funded Programs

1. College Work-Study
2. National Direct Student Loans
3. Pell Grants
4. Supplemental Educational Opportunity Grants

State of New Jersey Programs

1. Distinguished Scholars
2. Educational Opportunity Fund
3. Garden State Scholarship
4. Guaranteed Student Loans
5. PLUS Loan
6. Public Tuition Benefits
7. Student Assistants Employment
8. Tuition Aid Grants
9. Veterans Tuition Credit Program
10. Viet Nam Veterans Tuition Aid Program

Information regarding the N.J. Higher Education Assistance Authority Guaranteed Student Loan (GSL), PLUS loan and other financial aid programs may be obtained from the Financial Aid Office. Programs of financial assistance are revised from year-to-year and hence both eligibility criteria and the availability of funds may change. Inquiries for further information and requests for applications should be addressed to:

The Office of Student Financial Aid
C-321
College Hall
Montclair State College
Upper Montclair, N.J. 07043

Scholarships and Awards

Many special awards, funds, and scholarships have been established by the benefactors of the College who share its interest in quality education. A complete list of these opportunities may be found at the back of this catalog in the Appendix of Scholarships and Awards.

Intra-Collegiate Academic Programs

The Office of Intra-Collegiate Academic Programs is the administrative unit which oversees innovative programs designed to meet changing educational needs of both traditional and non-traditional students. It also administers the Office of Basic Skills and the Academic Advising Center.

Academic Advising Center

All matriculated students, full and part-time, are encouraged to seek regular academic advising during their college years. Advisors are available both day and evening for students who have not yet declared a major and those who intend to change majors. Advisors are also responsible for evaluating transfer credits.

Full- and part-time matriculated students who have declared majors are assigned to and counseled by faculty advisors in their respective departments. Additional information on faculty advising may be obtained by calling Department offices.

Undeclared majors are expected to declare a major by the time they have earned 48 credits. Students are encouraged to come to the Academic Advising Center office(s) for assistance in making this decision.

Basic Skills Program

Room 210, Richardson Hall
Telephone: 201-893-4476

The Office of Basic Skills coordinates and administers the New Jersey College Basic Skills Placement Test (NJCBSPT) to all entering freshmen and transfer students with fewer than 26 transferable credit hours. It also monitors the completion of all required developmental courses. Full-time students must complete required remedial courses within the first year of enrollment, part-time students within the first two years of enrollment.

Cooperative Education

Room 104, Student Center Annex
Telephone: 201-893-4426

Cooperative Education is a unique learning opportunity integrating classroom studies and supervised work experiences. Co-op enables a student to explore various career options and gain valuable experience prior to graduation.

Students with a minimum grade point average of 2.25 and 45 completed credits are invited to participate in the program. Paid full- or part-time internships meeting co-op work-learning criteria may be arranged for a minimum of one semester. Students can earn 4, 6, or 8 major or free elective credits depending on the length of the position.

Screening criteria for the positions are determined by the employer. Students meeting these criteria are referred for interviews. Hiring decisions are made solely by the employers.

Students interested in the co-op program should apply to the Cooperative Education Office one semester prior to desired placement.

Educational Opportunity Fund (EOF)

*Room 304, College Hall
Telephone: 201-893-4383*

The EOF provides the educationally and economically disadvantaged person with the opportunity to attend colleges or professional schools in New Jersey. The goal is to make college possible for the student who has the potential to succeed but lacks the credentials required to be admitted through the normal process. The EOF program recruits, admits, and supports the motivated student through graduation from college.

A wide range of majors are available to EOF students, and they are also offered special services that help them in their college career. These include assistance in applying for financial aid; a required six-week summer pre-college experience that aids in the transition and adjustment to college life; tutorial assistance; and continual academic, career and personal counseling.

For detailed information, call the director of EOF.

Part-time Provisionally Matriculated Students

*Room 306, College Hall
Telephone: 201-893-4431, 4432, 4433*

Students who do not meet admissions criteria for full-time or part-time matriculated status are accepted by the College on a provisional basis. Under this category, students are limited to a maximum of 9 semester hours each semester. Upon completion of 15 - 18 semester hours of course work and a grade point average of 2.0 ("C") or better, students are granted matriculation status. At this point students may apply to the Admissions Office for full-time status.

Provisionally matriculated students who do not meet the minimum retention requirement after 15 semester hours of course work are dismissed from the College.

During the prematriculation period, students are advised individually and in groups by counselors in the ICAP Office. Additional services include Orientation and Advisement for new students and a specially designed Freshman Seminar for part-timers. Provisionally matriculated students generally attend evening and weekend classes; day classes are open to them on a space-available basis until their transfer to full-time status.

Second Careers Program

*Room 306, College Hall
Telephone: 201-893-4431*

This program is designed for adults, aged 25 and older, who want to begin or resume study for a bachelor's degree either part-time or full-time. It recognizes and addresses the unique problems of adult learners by providing pre-admission and post-admission counseling, a re-entry seminar that focuses on adults entering or returning to college, flexible class scheduling and an opportunity to earn advanced credits through the College Level Examination Program (CLEP) general examinations.

For further information about the Second Careers program, call the director.

Special Tutorial Program (STP)

*Room 311, College Hall
Telephone: 201-893-4384*

STP is designed to provide educational opportunity for a select group of educationally underprepared students. The mission of STP is to help make college a reality for this group of highly motivated students who lack the credentials to meet the criteria for college entrance. STP recruits its population through the EOF program applicant pool.

STP students are provided with special services such as counseling and tutorial assistance. They are also encouraged to enroll in a course entitled College Learning and Thinking Skills as an introduction and orientation to college academic and social life.

For additional information call the director of STP.

Upward Bound Project

*Room 401, Chapin Hall
Telephone: 201-893-4187*

This program was established for high school students from low-income families who have inadequate secondary school preparation. It is a pre-college program that helps students to acquire the skills and motivation necessary for higher education.

The program is sponsored by Montclair State College and fully funded by the United States Office of Education. The summer phase of the Project is held at Montclair State College and the academic year component at a site in Jersey City, N.J. One hundred students, in the tenth and eleventh grades, are recruited from Jersey City and Montclair for the Project.

Weekend College

*Room 306, College Hall
Telephone: 201-893-4433*

Montclair State College offers the opportunity to attend college during the weekends as a full-time or as a part-time student working toward a bachelor's degree. Classes are offered throughout the weekend in both the fall and the spring semesters beginning on Friday evening and continuing on Saturdays and Sundays. A student may take one course or several, on one day, or on all three days. As a student progresses toward the degree, he or she may have to take some of the advanced courses during the week.

Each student has an academic advisor who helps in the proper selection of courses and scheduling that meets the student's needs and interests.

The Weekend College is a valuable cross-cultural experience for the English speaking person seeking to work among the Spanish speaking. Many of the students in the Weekend College are Spanish speaking because a major part of the Weekend College is geared toward providing an education that meets the needs of the Spanish-speaking or bilingual person.

To obtain detailed information, contact the Weekend College office.

Resources and Facilities

Academic Advisement

Students are encouraged to seek academic advisement often during their college careers. College academic advisors and faculty advisors can help students to plan a program and provide assistance in referring students to other resources if necessary. Contact the Academic Advising Center.

Alumni Association

Graduates of Montclair State College automatically become members of the Alumni Association. Each year the Association Executive Board and the alumni director plan a schedule of activities including class reunions, fall homecoming, Alumni Weekend, special conferences and senior class activities. The Association also sponsors scholarships and faculty grants and conducts fundraising activities which enable alumni to support their favorite College projects. The Alumni Office is located in the Alumni House, 34 Normal Avenue, Upper Montclair, telephone (201) 893-4141).

Bookstore

The College Store is located on the lower level of the Student Center. Normal hours of operation are Monday through Thursday, 8:30 A.M. - 8:00 P.M. and Fridays, 8:30 A.M. - 4:30 P.M. Extended hours are available at the beginning of each semester. Telephone (201-893-4309).

The College Store carries required textbooks and supplies as well as a wide variety of other merchandise. In many cases, textbooks are available for purchase several weeks prior to the beginning of the semester. It is recommended that students bring their course schedules to the College Store to aid in the selection of books, which should be purchased early. During the fall and spring semesters, undamaged books may be returned within ten calendar days of the first day of class provided that students produce sales receipts.

Campus Employment

College Work Study Program (CWSP) makes it possible for a student to earn money in a federally supported work-study program in the community or on campus. Eligibility is based on how much need is shown on the New Jersey Financial Aid Form. Earnings can only be used for educational expenses. To apply, contact the college's Financial Aid Office for the correct form.

Student Assistants Work Program (SA) involves various jobs on campus. Again, eligibility is based on a student's proven need. SA earnings can only be used for meeting education costs.

Information on all these aid programs is available through the Financial Aid Office, 321 College Hall, telephone (201-893-4461).

Career Services

Career Services assists students with all phases of their career development, from choosing a major and finding a part-time job to planning long-range career goals and obtaining full-time work after graduation. In instructional seminars and through individual counseling, students learn how to set career goals, write effective resumes, and conduct successful interviews and job searches. The office has a library where information on careers, employment trends, and employers can be found. Unique services which are offered include a computerized job matching system, videotaped "mock interviewing", and a computerized interactive career guidance system. Each year the office attracts more than 200 major employers to campus to recruit seniors. In addition, thousands of full-time, part-time, and summer jobs are listed annually.

Career Services is located in the Student Center Annex, Room 104. The office's telephone number is 893-5194.

Center for Continuing Education

The Center for Continuing Education provides a variety of direct educational programs for all students including older adults as well as services for industry, community agencies, and institutions. Additional services include instruction and testing in the areas of College Level Examination Program (CLEP), basic skills, and high school equivalency preparation. The Center's National Adult Education Clearinghouse library provides direct or mail loan service of an extensive materials collection, which is recognized by UNESCO as a member of its Information and Documentation Centers for Adult Education. In addition, it offers throughout the region credit and non-credit undergraduate television courses, which are cooperatively sponsored with academic departments.

For the undergraduate student, the Center provides independent study and practicum experience opportunities with community agencies.

Undergraduate level course offerings:

0807 459 SEMINAR AND PRACTICUM IN ADULT COMMUNITY EDUCATION

Course designed to develop awareness, skills and understanding in teaching of adults. Lecture-discussion demonstration and practicum experience. Course participant will be able to become more aware of developing new approaches to guiding learning experiences for the adult.

0807 460 CURRICULUM AND INSTRUCTION IN ADULT EDUCATION

This course is designed to increase undergraduate and graduate student professional competence as an adult educator through the development of his or her knowledge, understanding, and application of theory, teaching techniques, and curriculum in the field of adult education.

The Center's main office is located at 860 Valley Road, telephone (201-893-4355).

Computer Services Center

The Computer Center, located in room 106, College Hall, provides facilities for both the academic and administrative functions of the College.

Students, faculty, and administrative personnel are afforded the use of various computing equipment in a complex environment. The central facility, New Jersey Educational Computing Network (ECN), a consortium of all New Jersey State Colleges, provides large IBM mainframe equipment including an IBM 3033 MVS/SP, and a 4381 VM/370SP. Local hardware includes a DEC VAX11/780, a Burroughs B1955, and several IBM, DEC, and APPLE micro computer labs.

A wide-range of software applications are maintained on these systems allowing the users to pursue their own particular lines of study.

Health Services

The College Health Center is staffed by a doctor and four nurses. The Center provides pre-participation examinations, tuberculosis screening, first aid, pregnancy tests and referrals to personal physicians or specialists.

Student medical insurance for accident and sickness benefits is available at a moderate annual premium, payable at registration.

Although it is recommended for participation in College intramurals, coverage is not required. Additional information is available from the Health Center, Blanton Hall (201-893-4362).

Identification Cards

All students enrolled at the College are required to carry a current Montclair State College identification card (ID). The identification card is necessary for borrowing library materials and for participation in other student activities. Cards may be obtained in the College ID Card Office, which is located in the Student Center Annex, Room 423, (201-893-4147).

Intercollegiate Athletics

Intercollegiate athletics are coordinated by a board of student, faculty and alumni representatives called the Intercollegiate Athletic Council. The intercollegiate program provides students of all Schools with common and unifying activities.

The women's varsity program includes basketball, cross country, field hockey, gymnastics, softball, swimming, tennis and track.

The men's intercollegiate sports are baseball, basketball, cross country, football, golf, lacrosse, soccer, tennis, track, wrestling, swimming and water polo. Also offered is co-ed cheerleading for both football and basketball.

Rules of eligibility are determined by the College, the Eastern College Athletics Conference and the National Collegiate Athletic Association. All participants in the intercollegiate program must pass a medical examination each year.

All facilities meet the standards of the National Collegiate Athletic Association.

Panzer Gymnasium Complex- six-lane indoor pool with electrical timer; wrestling and weight rooms; a modern co-ed training room; fully equipped gymnastic area; sauna; newly renovated locker area; basketball court and an auxiliary gym.

Sprague Field- Astro-turf; seating for six thousand; permanent lighting system (all home football, soccer and some lacrosse games scheduled for this facility).

Pittser Field- Baseball diamond, eight tennis courts and a lighted platform tennis court which is adjacent to field.

Dioguardi Field-Lighted eight-lane synthetic surface track and field hockey and lacross fields.

Utility field- 400 foot square natural grass field for band practice, and intramural use.

Softball fields- 2 lighted fields for greater flexibility of scheduling games and practices.

The Intercollegiate Athletics Office is located in the Panzer School Center, telephone (201-893-5234 or 5236).

Library

The Harry A. Sprague Library is housed in a centrally located, attractive modern building. The library is designed to provide ample reading and study areas, and easy access to open shelves in pleasant, comfortably furnished surroundings. Combining the best of traditional resources with the latest in non-print communications technology, the three floors of the library form a vast information center.

The library owns more than a million and a quarter items, with about 350,000 books on the shelves, over 3,100 periodical subscriptions, 30,000 government documents, and more than 860,000 non-print items. The Non-Print Media Department has equipment for viewing and hearing a collection of videocassettes, films, records, audiocassettes, filmstrips, soundslide sets, and other non-print formats. As a designated government documents depository, the library receives and makes available for public use thousands of Federal and New Jersey State publications.

Public Service and Technical Service librarians are experts both in library science and in an additional subject area. The Reference librarians are dedicated to helping students learn how to approach research assignments as well as locate information. Hundreds of classes in library instruction are conducted each year by the librarians. These range from the basic introductory library lecture to classes in advanced research in the various subject fields. Reference librarians are always available to assist students with individual projects and to answer specific reference questions.

The library has the most modern computerized library technology, which provides access to the library's holdings through an on-line system. Interlibrary loan uses a computer terminal to quickly locate and send for books and articles that are not in the collection and are needed by students. On-line computerized bibliographic searching is available to students and faculty as a regular library service. While these technological changes are important, the library's primary mission is, and will always be, the enhancement and support of the College's educational program through an excellent library collection and by personal attention to each student's individual needs. Telephone (201-893-4291).

Media Center

A well-equipped Media Center is located in College Hall. It takes care of all requests for audiovisual materials, equipment and services. The center also handles the scheduling and rental of films.

On request, the staff will demonstrate audiovisual techniques and design and produce custom graphic materials. The center lends a variety of equipment to students for special projects. Telephone (201-893-4241).

Panzer School Council

In 1958, Panzer College, a noted single-purpose institution with a rich tradition of developing teachers of physical education and health, was incorporated into Montclair State College and became known as the Panzer School of Physical Education and Hygiene at Montclair State College. The College became the custodian and depository of Panzer College records. The Panzer School Council was established in 1971 during a reorganization of the College. Presently, the Council is part of the School of Professional Studies. Membership consists of the chairpersons of the Departments of Health Professions and Physical Education, Recreation and Leisure Studies as well as the Dean of the School of Professional Studies. A major portion of the Council's efforts to aid students in extra-curricular activities are actively and generously supported by the Panzer-Montclair College Alumni Association. Such support takes the form of direct scholarship aid, providing funds for professional conferences, workshops and sports clinics. Telephone (201-893-5167).

Parking and Traffic

Parking is available for students who display current decals or permits in those areas designated on campus maps. Campus shuttle buses are available for transportation from the Quarry lots to upper campus. Decals may be purchased from the business office. Temporary permits may be obtained from campus police headquarters in Chapin Hall.

All N.J. State traffic regulations are enforced at MSC. Campus regulations are listed in the current Schedule of Courses booklet.

Police and Security

The College maintains a full-time police force, whose mission is to protect and serve members of the MSC community. The police enforce all traffic and parking regulations, being empowered to issue both campus and municipal citations. In addition they receive and investigate all reports of crimes, provide crime prevention information and handle medical emergencies.

MSC also has security officers whose primary purpose is the protection of property. (This includes fire safety activities).

For information about police and/or security; traffic and parking; self protection seminars, and other police-related matters, call Campus Police, Chapin Hall, at telephone (201-893-5222).

Pre-Law Advisor

The College Pre-Law Advisor, Dr. Harry Balfe, counsels interested students in the possibilities and procedures for law school admission. He also maintains a library of catalogues from law schools actively seeking qualified students. The office of the Pre-Law Advisor is located in Russ Hall 327, telephone (201-893-7757 or 4238).

Through the new Pre-Law Studies Minor, assistance is offered in planning appropriate curriculum for the individual student. See LEGAL STUDIES for further information. The office of the Director of the Center for Legal Studies, Dr. Marilyn Frankenthaler, is located in Partridge Hall 313, telephone (201-893-4228).

Psychological Counseling

A staff of professional psychologists and a part-time psychiatrist are available every school day at the Office of Psychological Services. The staff observes the ethical standards of the American Psychological Association, guaranteeing confidentiality.

Counselees have access to testing, diagnosis, individual and group therapy, off-campus referrals and a variety of groups for specific problems.

Psychoeducational Center

The Psychoeducational Center is a campus-based training facility. Its purpose is to provide integrated clinical and educational experiences for students of Montclair State College who are preparing for professional roles as audiologists, music therapists, reading teachers, speech pathologists or recreation therapists, learning disabilities specialists, and teachers of the handicapped. Training is conducted through the campus demonstration school, communication disorders center, and music therapy clinic, which provide service to the community. The center is located in Room 118 of the Speech building, telephone (201-893-4255).

The Reading and Study Skills Center

The Reading and Study Skills Center, located in the southwest corner of College Hall, rooms C 101 to C 109 (telephone number: 893-4247) has faculty and facilities to provide reading and study skills help to college students. Consultation, computer assisted instruction, tutoring and independent activities are available.

Religious Facilities and Programs

Several religiously oriented organizations exist at Montclair State College, and can be contacted through the Office of Religious Affairs located in the Student Center, Room 409. Organizations presently recognized on campus include Chi Alpha, Inter Varsity Christian Fellowship, Jewish Student Union, Montclair State Protestant Foundation and the Newma Community. Telephone (201-893-5364).

Residence Halls

The College offers several choices for student residence. For undergraduate students, there are five residence halls, and one apartment complex. They hold 2,000 men and women. There is also off-campus housing for more than 500 in the surrounding community.

New students are given high priority for campus residence, and returning students have an excellent possibility of reacceptance for succeeding years.

Each hall is staffed by a Residence Hall director and student assistants. They can describe the many activities and organizations available, as well as job and leadership opportunities.

In residence halls, students choose one of the board plans at the dining halls. If they live off campus or in the apartment complex, they can sign up for a college meal plan or not, as desired.

For further information, contact The Residence Life Office, Bohn Hall, Room 411, telephone 201-893-4156 for on campus information and 893-5188 for off campus.

Student Center

The Student Center is a main gathering point for recreational and social activities. This large modern building has a cafeteria, snack bar, dining room, rathskeller, bookstore, gameroom, candy store, information desk, flea market, and full-service bank.

This building, along with the newly constructed annex and locker facility, offer ample meeting locations, comfortable lounges, a weightroom and numerous student offices.

Summer Sessions

Summer Sessions provides opportunities for full-time and part-time students to pursue their college studies and take advantage of special educational, cultural and activity programs during a six-week day session and eight-week evening session, mid-June through the first week of August. In addition, short-term courses and programs are offered throughout the summer and during pre-session (first two weeks of June) and post-session (middle two weeks of August). College courses, seminars and workshops are offered on the undergraduate and graduate levels.

Qualified visiting students from other colleges and universities and Montclair State College students who meet the requirements for registration may enroll in Summer Sessions courses and programs. Interested individuals should contact the Summer Sessions Office, 215 College Hall; for further information, telephone (201-893-4352).

Television Center

A well-equipped Television Center is located in Life Hall, Room 117. It takes care of all requests for television equipment and services. On request, the staff will demonstrate television techniques and lend a variety of television equipment to students for special projects. Telephone (201-893-4341).

Winter Session

Innovation and flexibility were the reasons Montclair State College established the Winter Session.

In a separate three week period in January devoted to intensive work, students are offered the opportunity to take a single course which usually could not be incorporated in the regular semester schedule. Traditional courses, which may be organized and presented differently from the usual 16-week pattern, are also offered.

The Winter Session affords the faculty an opportunity to teach new courses, renovate old courses, design interdepartmental courses, develop study abroad, travel, conduct research, or explore areas of study that are new, different and thought provoking.

The Women's Center

The Women's Center aids in the education of men and women to their ever-changing roles in society. Its staff seeks to increase the too-often ignored responsibilities, potentials, and opportunities leading to the self-determination and fulfillment of every human being.

To achieve this goal for the total community on and off campus the center provides a drop-in center, counseling, skills courses, a library, personal awareness seminars and many other aids in the process of individual growth.

The Women's Center is located in Room 420, Student Center, telephone (201-893-5106).

Student Affairs and Activities

Office of Student Affairs

The Office of Student Affairs is located in 217 College Hall and exists to provide general counseling to students, faculty, and others when their problems cannot be readily resolved through the College's routine procedures and channels.

The Vice President for Student Affairs coordinates the activities of the following areas: Admissions, Campus Ministry, Career Services, Financial Aid, Health Center, Psychological Services, Registration, Residence Life, Student Activities, and the Women's Center. In addition, the Vice President, assisted by the Dean of Students and Assistant Dean of Students, serves as an advocate on behalf of all students attending the College. Telephone (201-893-4311).

The philosophy of the Student Affairs Office is to create opportunities for favorable personal development. The following major organizations represent the formal structure supporting that philosophy.

Student Government Association, Inc. (SGA)

All undergraduates are members of the Student Government Association, a one million dollar self-governing organization. The SGA provides legal aid, drop-in center, pharmacy program, and other services through fees paid by all full-time and part-time undergraduates.

The legislative branch is composed of student representatives from each school and academic department. The executive branch consists of the president, vice-president, treasurer, and secretary.

Black Student Cooperative Union (BSCU)

BSCU is dedicated to encouraging others to learn more about the culture of Black people and to helping Black men and women develop pride and awareness in themselves and their communities. Activities include films, lectures, social events, and Kwanza.

Class One Concerts (C1C)

C1C gives the College community opportunities to enjoy on-campus concerts by various popular groups and artists. Members learn all phases of concert production, and expand their awareness of professional music presentation.

College Life Union Board (CLUB)

CLUB coordinates social, cultural, and recreational student programs. Movies, trips, parties, and other activities are planned each semester. Annual CLUB events include Winter and Spring Balls, and Spring Day.

Council on International and National Affairs (CINA)

CINA examines national and international cultural and political events and issues. Lectures, seminars, films, trips, and programs for UNICEF are planned and presented to the College community.

Human Relations Organization (HRO)

HRO serves students with training sessions in group dynamics and psychological development. An HRO weekend is held twice a year at a local camp site for nominal cost. HRO also sponsors on-campus seminars and group interaction during fall and spring semesters.

La Campana

The College yearbook, *La Campana*, is a yearly reflection of campus activities and concerns. Students interested in photography and the graphic arts are encouraged to join.

Latin American Student Organization (LASO)

LASO provides students an opportunity to explore Latin-American culture, music, art, and literature. Activities include dances, trips, Latin Week, and A Night in the Caribbean.

The Montclarion

The weekly student newspaper keeps the College community abreast of campus news, local events, and happenings at other colleges. Members gain journalistic experience in news, feature, and sports writing, as well as copy editing, layout, typesetting, photojournalism, circulation, and advertising. All undergraduates are eligible for staff positions.

Players

Players is a theatre organization which offers students the opportunity to participate in every phase of play production. Full-scale shows are presented each year. Players also sponsors theatre trips to New York City, and presents workshops by guest artists.

Quarterly

Quarterly, the literary and art magazine, seeks original material for publication each semester. It offers students a chance to express and share their individuality with the College community.

Student Intramural and Leisure Council (SILC)

SILC has the unique distinction of being one of the country's few student-controlled intramural programs. The day-to-day programming offered by SILC includes leagues for men and women in football, basketball, softball, volleyball, tennis, and bowling. It also sponsors badminton, water polo, and pinocle, and special activities such as trips to professional sporting events and a night of roller skating.

WMSC - 101.5 FM

WMSC, "the sound choice," is the student radio station. It broadcasts to northeastern New Jersey seven days a week, featuring a wide selection of music and entertainment programming, news and specials. WMSC provides experience for students interested in learning radio production and management, newscasting, and disc jockeying.

Academic Policies and Procedures

Advanced Placement

Students with demonstrable equivalencies may, under appropriate circumstances, be exempted from required courses and permitted to take more advanced work. Eligibility for advanced placement may be established on the basis of high school records or by scoring sufficiently well on specialized tests including the Advanced Placement Examination of the College Entrance Examination Board, College Level Examination Program (CLEP) tests, challenge examinations, etc. Students desiring advanced placement are advised to consult with the appropriate department chairperson and school dean to determine specific possibilities within their area of competence.

Attendance

Students are expected to fulfill all course requirements, and although attendance is not always mandatory, it is desirable. Absence from laboratory or studio sessions shall be by agreement with the instructor. Instructors should notify the students, in writing, of what the course requirements will be. Professors may penalize the students for failure to meet specific attendance requirements.

It is the student's responsibility to attend at least one class meeting of all courses for which he/she is enrolled during the first week of class to confirm his/her registration.

Audit Policy

To "audit" a course is to attend class regularly, without the obligation of participating in class discussions, laboratory work, examinations, performances or any class activity other than listening. A course may be audited under the following conditions:

1. Students auditing a course are required to establish eligibility for admission, register, and pay full tuition and fees.
2. A course may be audited on a space available basis only and requires approval and signature of the department chairperson.
3. Students are required to file an Audit Application with the Office of the Registrar in addition to the registration form.
4. The College's attendance policy applies to audited courses.
5. Audited courses are considered as part of the student's regular course load.
6. Audited courses do not carry academic credit.
7. An "audit" may not be changed to "credit" nor a "credit" to "audit" after the first three weeks of the semester.
8. The student's record will show a grade of "AU" for the course if the instructor certifies that the regulations, including required attendance, have been met.
9. A student who later seeks credit by examination for a course previously audited must be enrolled in the College at the time that the examination is taken and is subject to such fee charges for the examination as the College may establish.
10. A student who has audited a course may take the course at a later date for credit.

Basic Skills Requirements

The College expects all students to demonstrate proficiency in writing, reading, mathematics, and speech. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered prior to the beginning of the fall and spring semesters. Students receiving low scores on the various sections of the NJCBSPT will have credits added to the number of semester hours required to graduate. Developmental courses in reading, writing and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT. Students not completing all required developmental courses within the first year of enrollment (full-time students) or within two years of enrollment (part-time students) will be dismissed from the College.

The MSC basic skills requirement in speech must be fulfilled within a student's first 58 semester hour credits by satisfactory completion of the speech communication requirement or by a successful Speech Placement Waiver evaluation.

Cancellation of Courses and Staffing

The College reserves the right to cancel any course for which the enrollment is insufficient. Students may then register for another course for equal credit or receive a full refund of tuition and fees. The College also reserves the right to change faculty assignments and, therefore, cannot guarantee students faculty of their choice.

Class Standing

Sophomore standing is defined as a minimum of 26 semester hours earned with a cumulative grade point average of 1.60 based upon a possible 4.00 system; junior standing is a minimum of 58 semester hours earned with a cumulative grade point average of 1.80; senior standing is a minimum of 90 semester hours earned with a cumulative grade point average of 2.00. One hundred twenty-eight semester hours (more in certain degree programs) earned with a 2.00 cumulative and major grade point average in a prescribed degree program of study are required for graduation.

Counseling

All matriculated students, full and part-time, are encouraged to seek regular academic counseling during their college years. College counselors are available both day and evening for students who have not yet declared a major and those who intend to change majors. College counselors are also responsible for evaluating transfer credits.

Full and part-time matriculated students who have declared majors are assigned to and counseled by faculty advisors in their respective departments. Additional information on faculty advising may be obtained by calling Department offices.

Undeclared majors are expected to declare a major by the time they have earned 48 credits. Students are encouraged to come to the College Counseling Center office(s) for assistance in making this decision.

Course Loads

Full-Time Undergraduate Students

Full-time undergraduate students should earn 15-16 credit hours per semester. Special permission is required to take a Course Overload of more than 19 semester hours. To be considered a full-time student one must register for and continue active enrollment in at least 12 semester hours for the entire semester.

Full-time undergraduate students who have at least sophomore standing (26 credit hours earned) and a 3.00 or above cumulative grade point average or a 3.00 or above grade point average for the semester most recently completed may, upon the approval of the Dean of the School in which the student is majoring, register for a Course Overload. A School Dean may make exceptions to the eligibility criteria for Course Overloads. Requests for Course Overloads of 23 or more credit hours must additionally be approved by the Vice President for Academic Affairs.

All registrations for Course Overloads are on a space available basis during Change of Program registration. The College reserves the right to reduce the course load of any student who registers for more than 19 credit hours without Course Overload approval.

Part-Time Students

Undergraduate and graduate students admitted to the College for part-time study are limited to a maximum 9-semester-hour course load each semester (fall and spring). Students are required to complete a minimum of 3 semester hours of course work within 3 consecutive semesters (including fall and spring terms only) in order to maintain active status.

Course Overlap

Students may not register for courses where there is a time/day overlap. Should such a condition exist, the College reserves the right to drop one of the courses from the student's schedule.

In certain laboratory or studio type courses, in exceptional circumstances, course registration overlap may be permitted with written approval of the instructors of both courses as well as the approval of the dean and chairperson responsible for the instructional area.

Written permission must be obtained prior to the end of the official in-person registration.

Credit by Examination and Experience

Montclair State College offers the opportunity to all students to earn up to 60 semester hours through the College Level Examination Program (CLEP), the Advanced Placement Examination of the College Entrance Examination Board (CEEB), or departmental challenge examinations.

The CLEP General Examinations offer entering students the chance to earn up to 27 credits; thus the bachelor's degree may be earned in three years. In addition to the general examination, there are also over 30 CLEP subject matter examinations.

CLEP tests are given nationally during the third week of each month. Since CLEP general examination scores must be submitted prior to enrollment, these tests should be taken at least two months before the beginning of the semester. Montclair State College is a testing center and an application for the tests may be obtained by writing to:

CLEP Test Center
Center for Continuing Education
Montclair State College
Upper Montclair, NJ 07043

Montclair State offers students the opportunity to take subject matter challenge examinations for many courses. Not all courses at the College are eligible for credit by examination.

To receive credit by examination:

1. In the first semester, a full-time student shall earn a minimum of 12 semester hours with a minimum grade point average of 2.00.
2. A part-time student shall earn a minimum of 12 semester hours in the first 14/15 semester hours attempted and with a minimum cumulative grade point average of 2.00.

Credit for Life Experience

Montclair State College uses the evaluating services of Thomas Edison College for those who want life experience credits. All requests for evaluation must be made to Thomas Edison College in the first semester of enrollment. This evaluation and a report of credit will be sent to Montclair State. Failure to initiate the process in the first semester can cause the student the loss of credit.

Exemptions from Freshman English

1. A student who scores 4 on the Advanced Placement test is exempted from "Freshman Composition;" the waiver is issued by the Coordinator of Freshman English (CFE). The student is granted 3 credits but must submit a research paper to the CFE or his designee to fulfill the College writing requirement.
2. A student who scores 600 on the English Achievement test is exempted from both "Freshman Composition" and "Introduction to Literature;" the waiver is issued by the CFE. The student is granted 6 credits but must submit a research paper to the CFE or his designee to fulfill the College writing requirement. Once the research paper is accepted the student has completed the Communication requirements in both reading and writing.
3. A student who wishes to be granted an exemption from the College writing requirement must demonstrate writing and research competence at the same level as those students who successfully complete "Freshman Composition." The student's work will be evaluated by the CFE or his designee. This exemption carries *no credit*.
4. A student who wishes to be granted an exemption from the College reading requirement must demonstrate reading and interpretation competence at the same level as those who successfully complete "Introduction to Literature." The student's work will be evaluated by the CFE or his designee. This exemption carries *no credit*.
5. A student who wishes to be granted an exemption from "Freshman English" or "Introduction to Literature" or both, but wants credit must register for the course(s). Once registered the student asks the instructor for a challenge examination. With respect to "Freshman Composition," the student must submit a research project as part of the challenge process.
6. A student may be granted an exemption from one or both semesters of "Freshman English" through the CLEP Program. For exemption from "Freshman Composition," the student will also have to submit an acceptable research project.

Final Evaluation

It is the student's responsibility to complete the curriculum prescribed in the College catalog in effect, or as subsequently modified, when he/she matriculates. For undergraduates, a minimum cumulative grade point average of 2.00 (C) and major grade point average of 2.00 based upon a possible 4.00 system is required. Inquiries pertaining to an individual's program of studies should be referred to the appropriate counselor or faculty advisor. It is the student's responsibility to meet all graduation requirements.

Students who are eligible for graduation must file an *Application for Final Evaluation* in the Office of the Registrar according to the following schedule: **by October 1 for the following June; June 1 for the following January; March 1 for the following August graduation.**

Prior to in-person registration for the final semester, the student will be mailed a copy of the final evaluation listing requirements that must be completed in order to meet the intended date of graduation/certification. Students who wish to confirm receipt of the *Application for Final Evaluation* by the Office of the Registrar should consult the list posted outside the office during the month immediately following the filing deadline.

Baccalaureate degree candidates who have been evaluated for New Jersey Teaching Certificates must complete the *Application for Certification* and pay the required fees in the Office of the Registrar during the following periods: **March 15 to April 15 for June graduation; October 15 to November 15 for January graduation; July 1 to August 1 for August graduation.**

Effective October 15, 1985, the New Jersey State Board of Education requires candidates for *instructional* certificates to take sections of the National Teacher Examination or, in some cases, the Graduate Record Examination, and achieve a minimum score prior to certification. Information regarding *which* tests to register for and how to register is available in the Office of Teacher Admissions and Retention, AA003.

Final Examinations

Final examinations and evaluations are generally of a comprehensive nature covering the semester's work, but the form, determined by the nature of the course subject matter, varies with individual professors and classes. A schedule of final examinations is found in the Schedule of Courses booklet each semester.

Final examinations are weighted in relation to other evaluations which are made throughout the semester and do not replace periodic tests and other means of measuring student progress.

Grades and Standards

There are ten grades used at Montclair State College:

A	Excellent	IN	Incomplete
B	Good	WD	Withdrew
C	Fair	NC	No Credit
D	Poor	AU	Audit
F	Failure	P	Pass

The mark "F" signifies: (1) academic failure; (2) failure of the student to submit written notice of withdrawal; or (3) withdrawal after the midpoint in the semester. The mark "WD" is given to those who submit in writing their intention of withdrawing from a course before the midpoint of a semester.

The grade "IN" is intended to indicate that the student has not completed the course and that a grade is being withheld until the work is performed and approved. Students must enter into a formal contract with the faculty prior to the end of the semester, using the form available in the Office of the Registrar. The "IN," if not replaced with a final grade by May 1st for Fall and Winter incompletes and December 1st for Spring and Summer, will become an "F." Exceptions can be granted only upon petition to the appropriate School Dean.

A change of grade request from other than an "IN" grade, must be processed by faculty and approved no later than the end of the next fall semester following the semester in which the grade was earned.

Graduation Honors

Undergraduate students who have completed a minimum of 60 undergraduate credits at Montclair State College are recognized for academic honors. An A, B, C, or D must be received for a minimum of 48 of these 60 credits.

Academic honors are awarded as follows:

Average of 3.45 – 3.64 cum laude

Average of 3.65 – 3.84 magna cum laude

Average of 3.85 – 4.00 summa cum laude

An honors diploma will be awarded in addition to the regular diploma. A period of 3-4 months should be allowed for verification of cumulative average, printing, and mailing. However, the honors notation will appear on the official transcript after graduation.

Honors List

The Academic Honors List, issued after the close of each semester by the academic deans, gives recognition to students with a 3.50 or higher semester GPA if a minimum of 12 credits is earned in courses that contribute to the GPA.

Independent Study

Montclair State College offers opportunities for students to undertake academic credit on an independent study basis. Students who wish to register for courses on an independent study basis must obtain an "Independent Study Application" form from the Office of the Registrar. This form must be completed in full and approved by the instructor and the department chairperson prior to registration.

One copy of this form is to be retained by the student. One copy is to be submitted to the department chairperson, one copy remains with the instructor and the original must be submitted at the time of registration along with a registration form.

All courses which are approved to be taken on an independent study basis must also be listed on the registration form. The full course number (except reference and section numbers) is required.

Leave of Absence

Full-time undergraduate students in good academic standing (minimum cumulative grade point average, 2.00) may take a leave of absence of one or two semesters. This must be arranged through the Office of Student Affairs.

Students who take a leave are guaranteed re-admission if they file with the Office of Admissions an application for re-admission by August 1 for the fall semester and December 1 for the spring semester. Upon termination of the leave period, students are no longer guaranteed reinstatement and must follow normal readmission procedures if they wish to attempt to return to college.

Major Declaration

Undeclared majors should declare a major by the time they have earned 48 semester hours. Students are expected to complete the major for which they apply within the normal number of semester hours required for completion of the degree program. For most undergraduate degree programs, this is 128 semester hours; however, certain programs require more than 128 semester hours. Students may accrue more than the number of credits usually required for completion of the degree as a result of changing majors but will not be permitted to accrue additional credits for the purpose of establishing additional majors or minors. Students expecting to establish additional majors or minors beyond the normal number of credits required for completion of the degree are required to obtain permission from the Vice President for Academic Affairs. Students may not declare additional majors or minors after they have applied for final evaluation for graduation.

Pass/Fail Grading

The Pass/Fail grading option is available to Montclair State College undergraduates only. Its purpose is to encourage students to explore unfamiliar areas of study without concern for the effect on academic standing.

1. Students may select the Pass/Fail option for one course per semester, not to exceed a total of 24 semester hours in the degree program.
2. Courses which may not be taken on a Pass/Fail basis include those that meet major, minor, collateral, teacher certification, or communication requirements.
3. Courses offered on a Pass/Fail basis only do not preclude an individual from also taking an additional course under the Pass/Fail option.
4. Students receive either a grade of "P" or "F" for course work completed under the Pass/Fail option. A grade of "P" does not affect the student's average; however, a grade of "F" has the same effect as any other failing grade on the academic average.
5. Once the Pass/Fail option is elected by a student, it may not be rescinded. Letter grades will not replace "P" grades if changing majors, attending graduate school, applying for certification, or applying for admission to other colleges requiring letter grades.

Any student electing the Pass/Fail option is required to complete a *Pass/Fail Application* form and return it to the Office of the Registrar.

Plagiarism

All papers, reports and research submitted by students shall be their own except as properly annotated. The copying or imitating of others' work is plagiarism. A student guilty of plagiarism may be subject to dismissal.

Registration

General course selection for incoming students at Montclair State College is accomplished through an advanced registration procedure. Students will receive registration materials in their departments or through e-mail and should return them properly completed to the Office of the Registrar. Since the master schedule is developed and administered through a series of data processing steps, students are urged to read registration materials thoroughly before completing registration forms. Students should consult their faculty advisor or school counselor for assistance with this activity.

Repeated Courses

A student should repeat a failed course as soon as possible.

To repeat a course a student must register, make payment for that course and file a Repeat Course card with the Office of the Registrar. There is no special approval required to repeat a course in which a grade of "F" was received. A course repeated at another institution does not remove a "D" or "F" at Montclair State College.

A student must repeat a failure if the course is required for graduation. When a course has been repeated, both the original and subsequent courses are included on the permanent record, but the credit is counted only once. The grade received in the repeated course becomes the official final grade. Generally, students may not repeat courses in which grades of "D" were received. A student may repeat a sequential course in which a grade of "D" was received with the approval of the department chairperson in which the course was taken as well as approval of the Vice President for Academic Affairs, providing permission is obtained prior to registration. Only the first half of a sequential course with a grade of "D" may be repeated and shall be done prior to taking the second half. The regulations for failed courses also apply to a repeated course in which a grade of "D" was received. Courses in which the student received grades other than "D" or "F" cannot be repeated. Repeated course forms are available in the Office of the Registrar.

Residence Requirements

A minimum of 32 credit hours of the total required for the baccalaureate degree must be completed at Montclair State College. The final 24 credit hours required for graduation must be taken at Montclair State College and cannot be acquired through transfer.

Any student who transfers from another institution with advanced standing in a major field of study is required to complete a minimum of twelve credit hours of upper level course work in the major at Montclair State College. Some curricula may require more than this minimum.

Retention Standards

All undergraduate students whose cumulative grade point average (GPA) or previous semester GPA is below 2.00 are automatically on probation. The students on probation are not permitted to remain in the College for more than two consecutive semesters. Full-time undergraduates are expected to earn an average of 12 semester hours per semester of attendance.

Students are subject to non-retention if the cumulative GPA is below minimum retention for the number of semester hours earned. Semester hours earned include all courses passed at Montclair and any credits earned through transfer, credit by examination or assessment.

	Total Semester Hours Earned		
	0-57	58-89	90 plus
Minimum Retention	1.60	1.80	2.00
Academic Furlough	1.40-1.59	1.60-1.79	1.80-1.99
Academic Suspension	1.00-1.39	1.20-1.59	1.40-1.79
Academic Dismissal	0-.99	0-1.19	0-1.39

Furlough

Academic furloughs may be granted to students whose cumulative GPA is below retention (not more than 0.20 below) and/or are not making satisfactory progress for the degree. When a student is on academic furlough, he or she may not take course work at Montclair State.

Students granted an academic furlough are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the Academic furlough. Readmission is automatic.

A student who is readmitted from academic furlough is given two semesters to raise the cumulative GPA to retention level and make satisfactory progress towards the degree. If the student does not perform at a 2.00 level the first semester back or is not at retention level after two semesters, the student is given an academic dismissal.

Suspension

Academic suspensions are given when a student's cumulative GPA is below retention level and/or is not making satisfactory progress for the degree. When a student is on academic suspension, he or she may not take course work at Montclair State.

Students granted an academic suspension are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the academic suspension. Readmission is not automatic. It is based on the probability of success in the chosen major and upon the space available at the time.

Retention requirements after readmission from academic suspension are the same as those listed above for academic furlough.

Dismissal

Academic dismissals are given to students whose cumulative GPA is more than 0.60 below retention level or to students who have returned from furlough and suspension and did not achieve at a suitable level. A student placed on academic dismissal is not eligible to return to the College.

Student Responsibility

The College expects students to assume responsibility for knowing and meeting the various regulations and procedures set forth in the College catalogs and in the schedule of courses booklet published each semester. The College reserves the right to terminate the enrollment of any student whose conduct, class attendance, academic record or financial obligation should prove unsatisfactory.

Student Rights

The Family Education Rights and Privacy Act of 1974 (Buckley Amendment) permits the College to release directory information about a student unless the student specifically requests that this information be withheld. Students who do not wish directory information to be released should notify the Office of Vice President for Student Affairs within the first two weeks of each semester.

Transcripts

To obtain a transcript, students must complete a transcript request form, available through the Office of the Registrar. A fee of \$2.00 per copy (both undergraduate and graduate records for same student are considered one copy) is payable in advance to Montclair State College. If 5 or more transcripts are requested at one time, the fee shall be \$10.00. Please allow 10 working days for processing of all transcript requests. Additional time should be allowed for transcripts processed at the conclusion of each College session.

Transcripts will not be released for students who have an obligation (i.e., financial, library, parking, loan, etc.) to the College.

Transfer Credit

MSC undergraduate students who wish to take courses at another institution and transfer the credits to MSC must complete the form "Request for Work at Another Institution" available in the Office of the Registrar prior to enrollment in the course(s) they wish to transfer. Students without a major must obtain permission from the Office of Vice President for Academic Affairs. All accepted credits will be listed, without grades, on the student's permanent record. Grades earned at other institutions are not included in cumulative average. However, transfer credit hours are used in determining the student's level.

All specific requirements for the degree must be completed even though this may involve more than that expected by the student at the time of transfer. Courses with grades of "D" or "F" are not accepted for transfer credits.

Transfer Credits

Non-Accredited Institutions

To receive evaluated credit from an institution licensed by a state to grant degrees but not regionally accredited:

1. in the first semester, a full-time student shall earn a minimum of 12 semester hours with a minimum grade point average of 2.00.
2. a *part-time* student shall earn a minimum of 12 semester hours in the first 14/15 semester hours attempted and with a minimum cumulative grade point average of 2.00.

Undergraduates in Graduate Courses

MSC seniors within 16 hours of completing bachelor degree requirements, who possess at least 2.67 grade point average and have taken all required prerequisites, may take up to 6 hours of 500 level courses for either undergraduate or graduate credit, if prior permission is granted. The form for this is obtainable at the Graduate Studies Office. If courses are taken for graduate credit, graduate tuition and fees will be charged.

Admission of an undergraduate to a graduate (500 level) course does not imply future acceptance into any graduate program. That can only be done by a separate admission process. Those planning to matriculate in graduate programs at the College should refer to the Graduate Catalog for specific test requirements.

Veterans' Credit

All veterans who completed a minimum of six months active duty are eligible to receive three elective credits, one of which fulfills the one semester physical education requirement. Applications to receive these credits are available from the Veterans' Office (201-893-5180).

Withdrawal from Courses

Students who wish to withdraw from courses must complete the withdrawal form or send a written notice to the Office of the Registrar. (Notification to the instructor or a "Stop Payment" of a check does not constitute an official withdrawal from the College.) Upon receipt of the withdrawal notice, students will be given or sent acknowledgement. Any student who fails to receive such acknowledgement within two weeks should immediately notify the Office of the Registrar. Withdrawals are computed from the date of receipt of the written notice or from the date of the postmark for those received through the U.S. mail. Students who do not submit a written notice will receive the mark of "F" in those courses which they cease to attend. See the current Schedule of Courses booklet for dead line dates.

Withdrawal from College

A full-time undergraduate student wishing to withdraw from the College must complete an official withdrawal form in the Office of Vice-President for Student Affairs. If the student is a minor, the signature of a parent or guardian is required on the withdrawal form. Strict adherence to the withdrawal procedure is necessary for possible readmission.

Special Withdrawal Procedure

Students who find it necessary to withdraw after the midpoint of the semester for medical reasons or personal emergency must petition the Registrar in writing, and provide supporting documentation.



Requirements for the Undergraduate Degree

The academic program of this College has been designed to provide each student with an in-depth experience in a major program, a sequence of courses to develop basic communication skills, and a series of general education courses to expose the student to the breadth and methods in the various fields of human knowledge. The structure of the general education program is designed to provide the best comprehensive liberal arts education for all students.

The following pages provide a description of the degree program requirements, an outline of the general education program required of all students, and a description of the teacher certification sequence for those students who choose to take that option.

These requirements are basic and should be a major part of the first two years of a student's undergraduate program. Departmental curriculum guides provided for your major course sequence should also be consulted.

In addition to the requirements stated above, the Board of Higher Education has mandated that a series of Basic Skills Tests be administered to all incoming students. If the student is found to have deficiencies in the areas of reading, writing, or basic mathematical skills, remedial courses are required and the student is expected to meet minimum standards during the first year of attendance at the College.

General Education

Requirement	34-58 Semester Hours
A./B.S.	58 Semester Hours
F.A./B.Mus	34 Semester Hours

Major Field	32-55 Semester Hours
Graduation Requirement in Writing	

Electives	15-38 Semester Hours
Minorities Culture Requirement (one course)	
Minimum number of semester hours required for graduation	128 Semester Hours

Teacher certification requirements involve use of 27-28 semester hours of the electives. Some teacher certification and other major programs require completion of more than 128 semester hours prior to graduation. For details on specific programs, consult the academic programs section of this catalog and the program worksheets obtained from the College academic advisor or faculty advisor. General information on teacher certification may be found in the program outlined by the department of Curriculum and Teaching in this catalog.

General Education Requirement (GER)

The General Education Requirement at Montclair State College is among the most comprehensive in area colleges and universities. On completion of the requirement, one will enjoy the benefits of the best of the traditional liberal arts curriculum: facility in a foreign language, a sense of history, a perspective on social sciences, a familiarity with the humanities and arts, and an understanding of mathematical and scientific principles and some of their contemporary applications. Beyond these traditional areas, one will have had the opportunity to study a major non-Western culture and several non-Western literary masterpieces. At least one important contemporary issue will have been examined in depth, and an introduction to computers will have been provided.

The courses taken to fulfill this requirement are designed to impart not merely information, but techniques of problem solving and analytical thinking. Primary readings in the work of classical thinkers and substantial writing assignments will be featured in nearly every course. Whenever possible, professors will show how several academic disciplines bear on a single problem or topic.

The General Education Requirement dedicates some of the major resources of the College to the benefit of introductory students. Combining the strength of the liberal arts curriculum with a contemporary approach to social and technological change, it supplies a valuable balance to any major program.

The following General Education Requirements apply to full-time freshmen and part-time students who began their studies at Montclair State College in Summer/Fall, 1983 or thereafter and transfer students entering the College in Fall 1985. These requirements are subject to change. Periodic visits to your faculty advisor or College academic advisor are strongly recommended to avoid difficulties in meeting graduation requirements.

Bachelor of Arts and Bachelor of Science

It is recommended that, whenever possible, a student complete the General Education Requirement during the first two years of study.

See General Education Requirement, Appendix of Courses, in this section of the catalog for specific courses that fulfill requirements within the GER categories listed below.

The same course may be used to satisfy both GER and major, certification, or minorities culture requirements, if it has been approved for these purposes, except that courses in a student's major department may not be used to satisfy the "General Education Electives" requirement described in section J below.

A. Communication 9 Semester Hours

Writing

A course in composition which will help develop the ability to express oneself clearly, to convey information fully and concisely, to persuade others effectively in standard written English, and to write college-level papers, using standard library techniques and appropriate documentation and style.

Reading

A course in the reading of imaginative literature, stressing comprehension, interpretation, analysis, and appreciation; the course is designed to impart skills in critical reading of literature, and a greater understanding of how literature provides insight into human values, self-understanding, and social awareness.

Speaking/Listening

A course in the comprehension and expression of the spoken American-English language. As a result of this course, students will understand oral communication as a process; they will speak more effectively and persuasively, will be more creative, active, and critical listeners.

B. Contemporary Issues 3 Semester Hours

An interdisciplinary course on a major contemporary issue, with a problem-to-solution emphasis. The outcome of the course should be a recognition of the complex nature of such problems (including their moral and ethical implications), and an awareness of their possible realistic solutions.

C. Fine and Performing Arts:

Art Appreciation

3 Semester Hours

A course in the inherent styles and qualities of a particular art form, designed to provide familiarity with important masterpieces in an historical and stylistic context, an understanding of the processes involved in creating art, and an ability to recognize and appreciate excellence.

D. Foreign Language

6 Semester Hours

A two-course sequence in a foreign language, with emphasis on reading, speaking, and writing skills. The skills, valuable in themselves, will enhance an understanding of the ways in which language reflects cultural values and traditions.

Note: Placement examination is required. Any student who is released from part or all of the foreign language requirement must take either a three credit course in linguistics or an advanced foreign language course.

E. Humanities

6 Semester Hours

1. World Literature or General Humanities: 3 Semester Hours

World Literature

A course in major works of world literature from Western and non-Western literary traditions. Taking the course will provide you with an expanded awareness of national and international cultural concerns, as well as a heightened sensitivity to literature.

General Humanities

An interdisciplinary course in General Humanities with emphasis on the great questions which have concerned and inspired artists and thinkers throughout the ages. The course will provide you with greater knowledge of the range of humanistic achievement in several areas of creative endeavor, and a deeper understanding of the values of different civilizations.

2. Philosophy/Religion: 3 Semester Hours

A course in philosophy or in religion which emphasizes a critical and creative response to specifically philosophical or religious ideas, arguments, and perspectives. The course will introduce great philosophical or religious thinkers and works, and will afford a broader perspective on the human condition.

F. Mathematics

5 Semester Hours

1. Mathematics: 3 Semester Hours

A course in mathematics as a tool of scientific investigation and as a significant part of our heritage, stressing an appreciation of mathematics as a tool for problem solving and analysis, and a greater ability to think precisely and logically.

2. Computer Science: 2 Semester Hours

A course illustrating the use of the computer as an indispensable problem-solving tool in modern society, stressing the development of computer literacy.

G. Natural/Physical Science

7 Semester Hours

1. Laboratory Science: 4 Semester Hours

2. Non-Laboratory Science: 3 Semester Hours

Two courses in natural/physical science, at least one with a laboratory component. The courses are designed to provide the ability to appreciate and utilize the scientific method. Selected findings in a particular field, the methods employed to obtain them, their historical and contemporary significance, and some of their applications will be emphasized in each course.

H. Physical Education

1 Semester Hour

A course in a particular sport or physical activity designed to improve skills in that activity, and to impart a better understanding of how regular exercise improves the quality of life.

I. Social Science

12 Semester Hours

1. American or European History: 3 Semester Hours

A course in American or in European history. The course will help students understand long-range historical developments in either the United States or Europe and, in a broader sense, will provide the perspectives on the influence of the past in shaping contemporary conditions.

2. Non-Western Cultural Perspectives: 3 Semester Hours

A course in the culture or civilization of indigenous peoples in Africa, Asia, or the Americas. Completing this requirement will provide important insights into the development of cultures not influenced in their formative stages by Western civilization.

3. Social Science (other than History): 6 Semester Hours

Two courses in social sciences other than history.

- a. A social science survey course will introduce the assumptions, principles, and methodologies of a particular social science discipline.

- b. A social science topical course will focus on a particular theme, problem, or issue in the social sciences.

Students who complete this requirement will have a better grasp of the analytical techniques and methods of inquiry in the social and behavioral sciences, and of their importance in understanding ourselves, our society, and the world.

J. General Education Electives

6 Semester Hours

1. GER approved courses (other than Physical Education)

2. General introductory courses at the 100-level or 200-level in any department in the schools of Fine and Performing Arts, Humanities and Social Sciences, and Mathematical and Natural Sciences.

3. Courses in the areas of Creative Expression and/or Personal/Professional Issues

Creative Expression

An elective course in the creative process in a particular art form. A creative expression course will afford the opportunity to be personally involved in a creative activity and gain insights into both the technical difficulties and the creative choices which artists face. One should develop not only a lifelong appreciation of the arts, but also remain an active participant.

Individual and Professional Issues

An elective course in personal or professional development. Taking one of these courses should provide a better understanding of oneself, teach one how to interact with others more effectively, or gain a more developed perspective on career choices.

Note: General Education Electives must be taken outside the student major.

Bachelor of Fine Arts and Bachelor of Music

It is recommended that, whenever possible, a student complete the General Education Requirement during the first two years of study.

See General Education Requirement, Appendix of Courses, in the section of the catalog for specific courses that fulfill requirements within the GER categories listed below.

The same course may be used to satisfy both GER and major, certification, or minorities culture requirements, if it has been approved for the purposes.

A. Communication Writing

9 Semester Hours

A course in composition which will help develop the ability to express oneself clearly, to convey information fully and concisely, persuade others effectively in standard written English, and to write college-level papers, using standard library techniques and appropriate documentation and style.

Reading

A course in the reading of imaginative literature, stressing comprehension, interpretation, analysis, and appreciation; the course designed to impart skills in critical reading of literature, and a greater understanding of how literature provides insight into human values, self-understanding, and social awareness.

Speaking/Listening

A course in the comprehension and expression of the spoken American-English language. As a result of this course, students will understand oral communication as a process; they will speak more effectively and persuasively, will be more creative, active, and critical listeners.

B. Contemporary Issues 3 Semester Hours
An interdisciplinary course on a major contemporary issue, with a problem-to-solution emphasis. The outcome of the course should be a recognition of the complex nature of such problems (including their moral and ethical implications), and an awareness of their possible realistic solutions.

C. Fine and Performing Arts:
Art Appreciation (Not Applicable)

D. Foreign Language 6 Semester Hours
A two-course sequence in a foreign language, with emphasis on reading, speaking, and writing skills; increased cultural understanding. The skills, valuable in themselves, will enhance an understanding of the ways in which language reflects cultural values and traditions.
Note: Placement examination is required. Any student who is released from part or all of the foreign language requirement must take either a three credit course in linguistics or an advanced foreign language course.

E. Humanities 3 Semester Hours
Philosophy/Religion
A course in philosophy or in religion which emphasizes a critical and creative response to specifically philosophical or religious ideas, arguments, and perspectives. The course will introduce great philosophical or religious thinkers and works, and will afford a broader perspective on the human condition.

F. Mathematics 2 Semester Hours
Computer Science
A course in the use of the computer as an indispensable problem-solving tool in modern society, stressing the development of computer literacy, i.e., the ability to perform basic tasks in a standard computer language.

G. Natural/Physical Science 4 Semester Hours
Laboratory Science
A course in natural/physical science with a laboratory component. The course is designed to provide the ability to appreciate and utilize the scientific method. Selected findings in a particular field—the methods employed to obtain them, their historical and contemporary significance, and some of their applications will be emphasized in the course.

H. Physical Education 1 Semester Hour
A course in a particular sport or physical activity designed to improve skills in that activity, and to impart a better understanding of how regular exercise improves the quality of life.

I. Social Science 6 Semester Hours
1. American or European History: 3 Semester Hours
A course in American or in European history. The course will help students understand long-range historical developments in either the United States or Europe and, in a broader sense, will provide perspectives on the influence of the past in shaping contemporary conditions.
2. Social Science (other than History): 3 Semester Hours
A course in social sciences other than history.
a. A social science survey course will introduce the assumptions, principles, and methodologies of a particular social science discipline.
b. A social science topical course will focus on a particular theme, problem, or issue in the social sciences.
Students who complete this requirement will have a better grasp of the analytical techniques and methods of inquiry in the social and behavioral sciences, and of their importance in understanding ourselves, our society, and the world.

J. General Education Electives (Not Applicable)

Major Field

Since one of the main purposes of an arts and science program is to give the student a broad general education, requirements for an arts and science major are generally limited to 32-55 semester hours. Requirements for major programs vary, a number of these major programs have "tracks" or concentrations. For details on specific programs, consult the academic programs section of this catalog and the program work sheets prepared by the College academic advisor or faculty advisor.

Free Electives

Students may fulfill their remaining credits for a minimum of 128 semester hour degree requirements through the selection of any other courses. Students may also choose a minor in a field by taking the appropriate course work as part of their free electives. They may also use electives to meet the teacher certification requirements.

Minorities Culture Requirement

The purpose of the Minorities Culture Requirement is to ensure that all graduates of MSC be acquainted with the life, history, and cultural contribution of a group recognized by the larger society as constituting a disadvantaged subculture in the U.S. * Even though women do not represent a statistical minority, they have shared "minority" status and are considered as part of the group recognized by this requirement.

*Race and ethnicity as defined by the Equal Employment Opportunity Commission

1. Blacks
2. Hispanics
3. American Indians or Alaskan Natives
4. Asian/Pacific Islanders

The following is a listing of the courses which meet this requirement. Certain of the courses listed below may simultaneously be used to meet the General Education Requirements and/or the Human and Intercultural Relations Requirement for Teacher Education, if they are included on the approved list of these courses.

C 2204 215	The Economics of Social Problems
E 0506 332	Minorities in Business
G 1003 275	Afro-American Art
G 1003 458	Traditional Arts of Sub-Saharan Africa
H 1005 150	Influence of Afro-American Culture on Music
H 1005 209	Introduction to Jazz
H 1005 309	The Art of Jazz
I 1008 345	Dance Techniques-Ethnic
J 2202 100	Cultural Anthropology
J 2202 200	Urban Anthropology
J 2202 206	Human Variation
J 2202 301	Peoples of Africa
J 2202 302	Native Latin Americans
J 2202 305	Native North Americans
J 2202 307	Ethnology of Southeast Asia and Oceania
J 2202 311	Anthropology of American Subcultures
J 2202 415	Women in Traditional Society
K 4903 186	Myths and Images of Women in French Literature
K 4903 381	Africa in Classical Antiquity
K 4903 383	Women in Antiquity
K 4903 399	Development of Black Thought
M 1501 238	Afro-American Writers
M 1501 294	Women Poets
M 1503 266	African Myth and Literature
N 0308 100	The Many Worlds of Latin America: Interdisciplinary Perspectives
N 2206 206	Introduction to American Urban Studies
N 2206 301	Urban Field Studies
N 2206 308	Land and Life in Latin America
N 2206 313	Urban Geography
P 2205 108	Introduction to African Civilization
P 2205 114	Early Latin American Civilization
P 2205 115	History of Puerto Rico
P 2205 131	Introduction to Indian Civilization
P 2205 132	Introduction to Chinese Civilization
P 2205 133	Modern Chinese Civilization
P 2205 205	Minorities in American History
P 2205 215	Women in American History

P	2205 217	History of Black Americans
R	1509 237	Oriental Philosophy
R	1599 210	Religion of the North American Indians
R	1599 212	Oriental Religions
R	1599 267	Women in Religion
S	2207 214	Women in Politics
S	2207 308	Ethnic Politics in America
S	2207 402	Government and Politics of Africa
S	2207 403	Government and Politics of China and Japan
S	2207 404	Government and Politics of India and South Asia
S	2207 405	Government and Politics of Latin America
S	2207 411	The Politics of Race
T	2001 102	Woman's Worlds
T	2001 231	Psychology of Aggression
T	2001 265	Psychology of Women
T	2001 345	Mental Health Issues of Hispanic Americans
U	2208 202	Racial and Ethnic Relations
U	2208 205	Black Family
U	2208 213	Social Stratification
U	2208 311	Urban Sociology
U	2208 430	Sociology of Sex Roles
V	1105 270	Spanish-American Cultural History*
V	1105 280	Cuban Cultural History*
V	1105 360	Hispanic Community Program*
V	1105 472	Puerto Rican Literature and Thought*
V	1105 475	Seminar on Hispanic Culture in the U.S.*
2	0842 335	The Legal Rights of Women
1	0829 412	Field Work in Urban Education
1	0829 423	Teaching in Urban Schools
3	0821 264	Sexism in American Education
3	0821 445	Puerto Rican Children in Mainland Schools
4	0840 355	Media in Intercultural Communication
6	1301 205	Women in Contemporary Society
6	1305 445	The Inner City Family

*Taught in Spanish

College Writing Requirement

Written work is an important part of the College curriculum because writing offers students the opportunity to think deeply and searchingly about their subjects and because skill in written expression is crucial to the welfare of both individuals and society. The College policy regarding written work includes the following requirements and provisions:

1. The document "Minimum Standards for Written Work," which is available from all academic departments, outlines in a general way the College's expectations concerning the content, organization, and format of written assignments. These provisions may be supplemented by departmental writing policy statements or by those of individual instructors.
2. As part of the General Education Requirement, each student must satisfy the communication requirement in writing, usually by taking Freshman Composition.
3. Writing is an important part of course requirements throughout the College (*minimum*: 1,500 to 2,000 words per course). This work may take such forms as essay examinations, research papers, laboratory reports, critical essays, and so forth.
4. All students must satisfy a graduation requirement in writing. Each department must evaluate the writing ability of its majors by means of a required course (or choice of courses) with substantial writing assignments. Normally this course should be taken in the junior year. Students with serious writing problems will be referred to the Writing Workshop and may not graduate until those problems have been eliminated. Students should consult their College academic advisor or major department chairperson regarding this course and other aspects of the department's writing policy. See list below.
5. The Writing Workshop (Life Hall, Room 230) offers consultation and tutorial help to all students with writing problems. There is no charge for this service.

Courses Satisfying the Graduation Requirement in Writing

Accounting, Law and Taxation

D	0503 463	Administrative Research Methodology and Analysis
---	----------	--

Anthropology

J	2202 203	Anthropological Linguistics
---	----------	-----------------------------

Biology

W	0401 416	Genetics Laboratory Investigation
---	----------	-----------------------------------

Business Education and Office Systems Administration

		Accounting and General Business Education
		Comprehensive Business Education
		Secretarial and General Business Education
		Office Systems Administration
B	0838 320	Business Communications
		Distributive Education and General Business Education
		Retail Merchandising and Management
B	0844 307	Retail Store Merchandising and Management

Chemistry

X	1905 343	Experimental Physical Chemistry
X	1905 495	The Chemical Literature

Classics

K	4903 281	Greek Civilization
---	----------	--------------------

Latin

K	1109 201	Latin Literature of the Republic
K	1109 202	Latin Literature of the Golden Age
K	1109 203	Latin Literature of the Silver Age
K	1109 204	Latin Literature of the Middle Ages

Communication Sciences and Disorders

L	1220 464	Psychology of Oral Communication
---	----------	----------------------------------

Economics

B	0845 320	Business Communications
---	----------	-------------------------

English

M	1501 225	Early American Literature
M	1501 226	Literature of the American Renaissance
M	1501 238	Afro-American Writers
M	1501 240	English Literature I: Beginnings to 1660
M	1501 241	English Literature II: 1660 to Present
M	1501 244	Chaucer
M	1501 245	Middle English Literature
M	1501 246	Renaissance Literature
M	1501 247	The Augustan Age
M	1501 248	From Sensibility to Romanticism
M	1501 254	English Drama - Beginnings to 1642
M	1501 324	American Poetry to 1940
M	1501 325	American Poetry: World War II to Present
M	1501 334	American Drama
M	1501 336	American Literary Realism
M	1501 337	Modern American Fiction
M	1501 338	Contemporary American Fiction
M	1501 343	Milton
M	1501 346	19th Century English Romantic Literature
M	1501 347	Victorian Prose and Poetry
M	1501 353	Shakespeare: Comedies-Histories
M	1501 354	Shakespeare: Tragedies-Romances
M	1501 356	English Novel to 1900
M	1501 401	Old English Language and Literature
M	1501 444	17th Century English Poetry
M	1501 446	Irish Renaissance Period Literature
M	1501 455	Restoration and 18th Century Drama
M	1501 456	20th Century English Novel

Environmental, Urban and Geographic Studies

N	2206 309	Research Methods in Geography and Urban Studies
N	2206 310	Quantitative Methods in Geography and Urban Studies

Finance and Quantitative Methods

D	0503 463	Administrative Research Methodology and Analysis
---	----------	--

Fine Arts

G	1003 105	Art and Civilization I
G	1003 106	Art and Civilization II

French

O	1102 350	Translation I
O	1102 351	Translation II
O	1102 352	Translation III

General Humanities

K	4903 201	General Humanities I (to 1400)
K	4903 202	General Humanities II (from 1400)

German and Slavic

O	1103 352	German Civilization II
---	----------	------------------------

Health Professions

Health Education

- 5 0837 315 Community Health
- 5 0837 330 Foundations of Health Education

Allied Health Services

- 5 0837 315 Community Health
- 5 0837 455 Core Concepts in the Delivery of Health Care

Physical Education and Health (Dual Certification)

- 5 0837 315 Community Health

History

- P 2205 200 The Study of History

Home Economics

- 6 1304 270 Individual Management: Theories and Strategies

Industrial Studies

Non-Teacher Education

- 7 0990 461 Management and Production

Teacher Education

- 7 0839 302 Principles and Methods of Teaching
Industrial Education

Linguistics

- Q 1505 230 Phonetics and Phonological Theory
- Q 1505 300 Syntax and Semantics I

Management

- E 0506 316 Human Resource Management

Marketing

- F 0509 442 Marketing Research

Mathematics and Computer Science

Mathematics

- Y 1701 335 Elements of Linear Algebra

Computer Science

- Y 0701 383 Data Structures

Music

- H 1006 307 Music History I

Philosophy and Religion

Philosophy

- R 1509 331 Ancient Philosophy
- R 1509 333 Descartes to Kant

Religious Studies

- R 1599 401 Philosophical Backgrounds of Western Religion I
- R 1599 403 Philosophical Backgrounds of Western Religion II

Physical Education, Recreation and Leisure Studies

Physical Education

- 8 0835 100 Orientation to the Physical Education Profession
- 8 0835 352 Development and Philosophy of Physical Education

Recreation and Leisure Studies

- 8 2103 124 Introduction to and History of Recreation and Leisure Services
- 8 2103 322 Philosophy of Recreation and Leisure

Physics and Geoscience

Geoscience

- Z 1914 434 Stratigraphy
- Z 1914 444 Petrology
- Z 1914 457 Meteorology

Physics

- Z 1902 280 Astronomy
- Z 1902 310 Advanced Mechanics
- Z 1902 350 Optics
- Z 1902 462 Nuclear Physics

Political Science

- S 2207 201 Comparative Politics
- S 2207 300 Scope and Theories in Political Science

Psychology

- T 2001 301 Experimental Psychology

Community Psychology

- T 2099 387 Methods in Evaluation Research

Sociology

Current Majors

- U 2208 300 Externship in Sociology
- U 2208 410 Social Action Practicum

Beginning With Fall 1985 Freshmen and Fall 1986 Transfer Students

- U 2208 201 Foundations of Sociological Inquiry

Spanish and Italian

Spanish

- V 1105 142 Spanish Grammar and Composition II
- V 1105 350 Translating I
- V 1105 351 Translating II
- V 1105 352 Practicum in Translating

Italian

- V 1104 142 Grammar and Composition II

Speech and Theatre

Broadcasting

- I 0603 140 Writing for Broadcast Media

B.A. Dance Performance and B.F.A. Dance

- I 1008 210 History of Dance

B.F.A. Acting/Directing, Design/Technical Theatre, B.A. Theatre Teacher Certification

- I 1007 208 Play Script Interpretation
- I 1007 210 Theatre History: Classical to Elizabethan
- I 1007 211 Theatre History: Restoration to Modern

Communication Theory and Practice

- I 1506 374 Group Processes
- I 1506 388 Seminar in Public Relations

Toxicology

- W 0426 311 Principles of Toxicology II
- W 0401 416 Genetics Lab Investigations

Transcultural Studies

World Cultures, Asian Studies, Latin American Studies

- P 2205 200 The Study of History



Basic Skills Requirement

1. All students must demonstrate proficiencies in writing, reading, mathematics, and speech which are compatible with the successful performance of college level work. The MSC Basic Skills Requirement provides for the demonstration of such proficiencies through a program of skills assessment and academic development.
2. The New Jersey College Basic Skills Placement Test is Administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State College will be assigned a test date, and registration will not be completed for entering freshman students until the Basic Skills test scores are in. That is, no entering student may expect to receive a first semester class schedule until he or she has taken the NJCBSPT or had the NJCBSPT scores transferred to the MSC Basic Skills Office from a college previously attended. Transfer students may be required to present verification of upper class standing to the Basic Skills Office prior to receiving a class schedule.
3. The Basic Skills requirement in Reading, Writing, and Mathematics may be fulfilled by achieving satisfactory scores on the appropriate sections of the NJCBSPT.
4. Students receiving low scores on the various sections of the NJCBSPT will have credits added to the number of semester hours required to graduate. Developmental courses in reading, writing and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT.
5. Students are expected to take required developmental courses during their first semester at MSC and *must* satisfactorily complete these courses within the first year of enrollment (full-time students) or within two years of enrollment (part-time students). No student may withdraw from a developmental course, and any student will be dismissed from MSC who does not satisfactorily complete the required developmental course(s).
6. Since the Mathematics Department has Basic Skills prerequisites for all of its courses, students will not receive credit for any mathematics course if the Basic Skills requirement has not been satisfied.
7. The MSC Basic Skills requirement in Speech must be fulfilled within a student's first 58 semester hour credits by:
 - A. Satisfactory completion of the Speech Communication Requirement.
 - OR
 - B. Successful Speech Placement/Waiver evaluation:
Application for this examination can be made in early October or early February at the Department of Speech and Theatre. Passing the examination *does not* grant semester hour credit, only satisfaction of the Speech requirement.
8. All questions about Basic Skills should be addressed to the Basic Skills Office, Richardson Hall, Room 207, telephone (201 893-4476).

Teacher Certification Requirements

The Teacher Education Program at Montclair State College reflects a balance between a liberal education and professional preparation. The program combines general education, subject-matter (major) specialization and professional training. The professional component addresses four broad areas: the curriculum, the student, the setting and effective teaching skills. Special emphasis is placed upon the research findings related to effective teaching. The specific objectives of the program are described in the *Teacher Education Handbook*, which may be obtained in the department of Curriculum and Teaching.

A. General Education

Students interested in teacher certification complete the same general education program as other students at the College. It should be noted, however, that certain courses meet both general education and teacher education requirements. These are noted in the section on the professional sequence below, and are recommended if you wish to complete your program with the minimum of semester hours.

B. Special Requirements

Students who intend to prepare for teaching should fulfill the following special requirements prior to formal admission to the certification program:

Human and Intercultural Relations Requirement

This requirement focuses on social interaction, intergroup relations, and the culture of minorities in the inner city. A course must be selected from the following list. All of these courses also fulfill the Minorities Culture requirement. Certain courses listed below may simultaneously be used to meet General Education Requirements, if they are included in the *General Education Requirement Appendix of Courses*.

C	2204 215	The Economics of Social Problems
E	0506 332	Minorities in Business
J	2202 200	Urban Anthropology
J	2202 311	Anthropology of American Subcultures
M	1501 238	Afro-American Writers
N	2206 313	Urban Geography
P	2205 217	History of Black Americans
S	2207 308	Ethnic Politics in America
S	2207 411	The Politics of Race
U	2208 202	Racial and Ethnic Relations
U	2208 205	Black Family
U	2208 311	Urban Sociology
V	1105 360	Hispanic Community Program
1	0829 423	Teaching in Urban Schools
3	0821 445	Puerto Rican Children in Mainland Schools
4	0840 355	Media in Intercultural Communication
6	1305 445	The Inner City Family

Speech Proficiency Requirement—Competence in speech must be demonstrated by completing Fundamentals of Speech: Communications Requirement or by passing an examination administered by the Speech and Theatre Department.

Examination in Physiology and Hygiene—This requirement may be satisfied by presenting college study in such areas as biology, personal health problems, community health, school health, family health, health counseling, nutrition or health administration or by taking an examination administered by the State Department of Education. This requirement does not apply in the fields of art, health education, home economics, industrial education, music, physical education, and vocational education.

C. Admission to Teacher Education

All students who intend to prepare for teaching must make a formal application for admission to the teacher preparation program. It is recommended that students apply at the beginning of the second semester of the sophomore year. Application forms may be obtained by interested students from their respective departments or from the Coordinator of Teacher Admissions, School of Professional Studies. The application will be screened by a faculty committee and only those applicants who meet the admission criteria will be accepted. The criteria are stated in this catalog under the Department of Curriculum and Teaching.

D. Professional Sequence for Teacher Education Certification

Five semesters, including the semester of acceptance, are required to complete the professional sequence. This is the general pattern for teacher certification programs. Some require additional method courses. You are encouraged to consult a departmental advisor early in your program.

E. National Teacher Examination

Effective October 15, 1985, the New Jersey State Board of Education requires candidates for *instructional* certificates to take section of the National Teacher Examination and achieve a minimum score prior to certification. Information regarding *which* tests to register for and how to register is available in the Office of Teacher Admissions and Retention, 003 Chapin Hall.

FRESHMAN YEAR

T	2001 101	General Psychology I: Growth and Development 3 Semester Hour (MEETS GENERAL EDUCATION REQUIREMENT FOR SOCIAL SCIENCE COURSE)
---	----------	---

SOPHOMORE YEAR

3	0821 220	Philosophical Orientation to Education	3 Semester Hours
		(MEETS GENERAL EDUCATION REQUIREMENT FOR PHILOSOPHY COURSE)	
T	2001 200	Educational Psychology	3 Semester Hours
		(MEETS GENERAL EDUCATION REQUIREMENT FOR SOCIAL SCIENCE COURSE)	
I	0829 200	Initial Field Experience	1 Semester Hour

JUNIOR YEAR

I	0829 410	Intermediate Field Experience in Education	1 Semester Hour
		Departmental Methods Course	3-4 Semester Hours
4	0830 407	Reading I: Theory and Process	3 Semester Hours
4	0830 408	Reading II: The Content Areas	3 Semester Hours
I	0829 400	Teacher, School, and Society	3 Semester Hours

SENIOR YEAR

		Professional Semester Package, including student teaching	13 Semester Hours
I	0829 435	Effective Teaching/Productive Learning	2 Semester Hours
I	0829 401	Senior Field Experience	1 Semester Hour
I	0829 402	Seminar in Professional Education	1 Semester Hour
		Departmental Seminar	1 Semester Hour
I	0829 411	Supervised Student Teaching	8 Semester Hours

Note: You are urged to consult frequently with a departmental advisor or the chairperson of the Department of Curriculum and Teaching.

General Education Requirement

Appendix of Courses

The following courses fulfill the General Education Requirement for full-time freshmen and part-time students who began their studies at Montclair State College in Summer/Fall, 1983 or thereafter, and transfer students entering the College in Fall 1985. Refer to the Legend of Departmental Codes on page 28 in order to determine which department offers the course.

GENERAL EDUCATION REQUIREMENT COURSES

COMMUNICATION

Writing

M	1501 105	Freshman Composition
---	----------	----------------------

Reading

M	1501 106	Introduction to Literature
4	0830 105	Reading: Communicating Through Text

Speaking/Listening

	1506 101	Fundamentals of Speech: Communications Requirement
	1220 101	Fundamentals of Speech: Communications Requirement

CONTEMPORARY ISSUES

E	0506 363	Business and Society
	2202 206	Human Variation*
	2202 214	Conflict and Violence
	2202 311	Anthropology of American Subcultures*†
K	4903 176	Italians and Italian-Americans: Comparative Studies
I	1501 175	The Vietnam War Experience and American Culture
N	2206 109	The Human Environment
O	1505 250	Language of Propaganda
	1599 225	Contemporary Social Problems
	2001 102	Woman's Worlds*
	2001 109	The Human Environment
	2001 231	Psychology of Aggression*
	2099 245	Introduction to Community Psychology
	2208 113	Social Problems
	2208 209	Sociology of Poverty and Welfare
	2208 211	Sociology of Health and Illness
	2208 216	Sociology of Food and Population

U	2208 218	Sociology of Population
W	0401 212	Human Heredity
Z	1914 221	Conservation of National Resources
3	0821 264	Sexism in American Education*
3	0821 477	Ethnic/Racial Groups and the Schools in America
4	0840 355	Media in Intercultural Communication*†
5	0837 213	Perspectives on Drugs
6	1301 205	Women in Contemporary Society*
6	1301 344	Challenge of Aging
6	1302 260	Housing and Society
6	1304 270	Individual Management: Theories and Strategies
6	1305 445	The Inner City Family*†
6	1306 153	Food and People
7	0839 101	Technology and Culture: Past, Present and Future
7	0990 284	Alternate Energy
8	0835 227	Social Problems in Sports
9	2220 102	Woman's World*

FINE AND PERFORMING ARTS: ART APPRECIATION

G	1001 100	Introduction to the Visual Arts
G	1003 105	Art and Civilization I
G	1003 106	Art and Civilization II
G	1003 108	Women in Art
G	1003 215	Ancient Art
G	1003 217	Selected Masterpieces of World Art
G	1003 220	Art in Non-Western Societies
G	1003 275	Afro-American Art*
G	1003 327	History of Oriental Art
G	1003 328	Survey of Greek Art
G	1003 450	Modern Architecture
G	1010 299	History of Cinema as Art
G	4921 230	History of the Print
H	1005 100	Introduction to Music
H	1005 160	Introduction to Music in World Cultures
H	1005 209	Introduction to Jazz*
H	1005 236	The American Musical
H	1005 237	The Opera
H	1005 238	Orchestral Literature
H	1005 240	Music of the Romantic Period
I	1007 100	Introduction to the Theatrical Medium
I	1008 105	Dance Appreciation
I	1008 210	History of Dance
I	1099 100	Introduction to the Fine and Performing Arts
K	4903 196	Introduction to the Film
K	4903 288	Music and Art in French Civilization

FOREIGN LANGUAGE

K	1109 101	Beginning Latin I
K	1109 112	Beginning Latin II
K	1109 121	Intermediate Latin I
K	1109 132	Intermediate Latin II
K	1109 201	Latin Literature of the Republic
K	1109 202	Latin Literature of the Golden Age
K	1109 203	Latin Literature of the Silver Age
K	1110 101	Beginning Greek I
K	1110 112	Beginning Greek II
K	1110 121	Intermediate Greek I
K	1110 132	Intermediate Greek II
O	1102 101	Beginning French I
O	1102 112	Beginning French II
O	1102 121	Intermediate French I
O	1102 132	Intermediate French II
O	1102 145	Introduction to French Culture
O	1102 146	Readings in French Literature
O	1103 101	Beginning German I
O	1103 103	Beginning German I (Reading)
O	1103 112	Beginning German II
O	1103 114	Beginning German II (Reading)
O	1103 121	Intermediate German I
O	1103 123	Intermediate German I (Reading)
O	1103 132	Intermediate German II
O	1103 134	Intermediate German II (Reading)
O	1103 151	Advanced German I

*Meets Minorities Culture Requirement

†Meets Human and Intercultural Relations Requirement for teacher certification

- O 1103 152 Advanced German II
- O 1103 251 Introduction to German Literature I
- O 1103 252 Introduction to German Literature II
- O 1103 351 German Civilization I
- O 1103 352 German Civilization II
- O 1106 101 Beginning Russian I
- O 1106 112 Beginning Russian II
- O 1106 121 Intermediate Russian I
- O 1106 132 Intermediate Russian II
- O 1106 141 Advanced Russian I
- O 1106 152 Advanced Russian II
- Q 1107 101 Beginning Chinese I
- Q 1107 112 Beginning Chinese II
- V 1104 101 Italian I
- V 1104 102 Italian II
- V 1104 103 Italian III
- V 1104 104 Italian IV
- V 1104 240 Studies in Italian Literature:
Origins to 18th Century
- V 1104 241 Italian Literature:
18th through 20th Centuries
- V 1104 260 Italian Cultural History
- V 1105 101 Spanish I
- V 1105 102 Spanish II
- V 1105 103 Spanish III
- V 1105 104 Spanish IV
- V 1105 120 Comprehensive Spanish I and II
- V 1105 140 Comprehensive Spanish III and IV
- V 1105 145 Readings in Hispanic Literature
- V 1105 151 Masterpieces of Spanish Literature I
- V 1105 152 Masterpieces of Spanish Literature II
- V 1105 161 Masterpieces of Spanish-American
Literature I
- V 1105 162 Masterpieces of Spanish-American
Literature II
- V 1105 260 Spanish Cultural History
- V 1105 270 Spanish-American Cultural History*
- V 1105 280 Cuban Cultural History*
- V 1198 101 Portuguese I
- V 1198 102 Portuguese II
- V 1198 103 Portuguese III
- V 1198 104 Portuguese IV
- V 1198 160 Masterpieces of Portuguese Literature
- V 1198 162 Masterpieces of Brazilian Literature
- V 1198 260 Luso-Brazilian Culture

HUMANITIES

World Literature or General Humanities

World Literature

- M 1503 176 World Literature: The Coming of Age Theme
- M 1503 177 World Literature Seminar:
Voices of Tradition and Challenge

General Humanities

- G 1003 250 Modern Philosophies of Art
- K 4903 201 General Humanities I
- K 4903 202 General Humanities II
- K 4903 285 Mythology

Philosophy/Religion

- R 1509 100 Introduction to Philosophy
- R 1509 102 Ethics
- R 1509 104 Social and Political Philosophy
- R 1509 106 Logic
- R 1599 100 Religions of the World
- R 1599 101 Introduction to Religion
- R 1599 103 Religion and Moral Issues
- R 1599 221 Religion and Culture
- R 1599 269 Death and Dying: Religious Perspectives
- 3 0821 220 Philosophical Orientation to Education

MATHEMATICS

Mathematics

- Y 1701 103 The Development of Mathematics
- Y 1701 109 Statistics
- Y 1701 116 Calculus A (I)
- Y 1701 122 Calculus I (I)
- Y 1701 221 Calculus II (I)

Computer Science

- Y 0701 107 Computers and Society
- Y 0701 183 Foundations of Computer Science I (I)

NATURAL/PHYSICAL SCIENCE

Laboratory or Non-Laboratory Science

- W 0401 100 Biological Sciences
- W 0401 103 Basic Biology I
- W 0401 104 Basic Biology II
- W 0401 110 The Biology of Human Life
- W 0401 130 General Zoology I (I)
- W 0401 131 General Zoology II (I)
- W 0401 140 Biology of the Cell (I)
- X 1905 100 Introductory Chemistry
- X 1905 120 General Chemistry I (I)
- Z 1902 100 Concepts in Science
- Z 1902 105 Acoustics
- Z 1902 191 General Physics I (I)
- Z 1902 192 General Physics II (I)
- Z 1902 193 College Physics I (I)
- Z 1902 194 College Physics II (I)
- Z 1914 107 Fundamentals of Geoscience
- Z 1914 112 Physical Geology
- Z 1914 114 Historical Geology

Laboratory Science Only

- W 0401 121 The Plant Kingdom (I)

Non-Laboratory Science Only

- J 2202 101 Physical Anthropology
- N 2206 100 Principles of Geography
- W 0401 107 Biology for Survival
- W 0401 109 Living World of Animals and Plants
- Z 1914 108 Principles of Geology
- Z 1914 157 Understanding the Weather
- Z 4902 104 History of Science
- Z 4902 106 Science and Society
- Z 4902 110 Natural Disasters
- Z 4902 162 General Oceanography
- Z 4902 180 Descriptive Astronomy
- 5 0837 240 Foundations of Environmental Health
- 6 1306 182 Nutrition

PHYSICAL EDUCATION

- 8 0879 200 Beginning Swimming
- 8 0879 201 Springboard Diving
- 8 0879 202 Badminton
- 8 0879 203 Golf
- 8 0879 240 Platform Tennis
- 8 0879 242 Racquetball
- 8 0879 250 Intermediate Swimming
- 8 0879 251 Aerobic Activities
- 8 0879 252 Archery
- 8 0879 253 Gymnastics
- 8 0879 257 Weight Training and Conditioning
- 8 0879 258 Beginning Tennis
- 8 0879 260 Beginning Riding
- 8 0879 261 Fencing
- 8 0879 262 Volleyball
- 8 0879 263 Jogging
- 8 0879 264 Soccer
- 8 0879 265 Figure Skating
- 8 0879 266 Skiing
- 8 0879 267 Advanced Swimming
- 8 0879 268 Bicycling
- 8 0879 270 Folk and Square Dance
- 8 0879 271 Social Dance
- 8 0879 272 Bowling
- 8 0879 274 Scuba Diving
- 8 0879 275 Beginning Karate
- 8 0879 278 Yoga

*Meets Minorities Culture Requirement

†Meets Human and Intercultural Relations Requirement for teacher certification.

(I) Recommended for students with strong math/science background.

SOCIAL SCIENCE

American/European History

K 4903 281	Greek Civilization
K 4903 282	Roman Civilization
P 2205 103	Foundations of Western Civilization
P 2205 105	Emergence of European Civilization 1500-1915
P 2205 106	Contemporary Europe 1914-Present
P 2205 110	Introduction to American Civilization
P 2205 111	Contemporary American Issues in Historical Perspective
P 2205 210	Selected Topics in American History to 1876
P 2205 211	Selected Topics in American History since 1876
P 2205 281	Greek Civilization
P 2205 282	Roman Civilization
7 0990 205	Historical Perspectives of American Industries-Field Study

Non-Western Cultural Perspectives

C 2204 303	Economic Growth and Development
J 2202 302	Native Latin Americans*
J 2202 305	Native North Americans*
J 2202 307	Ethnology of Southeast Asia and Oceania*
J 2202 310	Cultures of the Middle East
J 2202 312	Peasant Culture
J 2202 431	Development of Indian Character and Culture
N 2206 412	Geography of the Sub-Sahara Africa
N 2206 413	Geography of the Middle East
P 2205 108	Introduction of African Civilization*
P 2205 109	Introduction of Islamic Civilization
P 2205 114	Early Latin American Civilization*
P 2205 131	Introduction to Indian Civilization*
P 2205 132	Introduction to Chinese Civilization*
P 2205 223	Communist Revolution in China
P 2205 431	Development of Indian Character and Culture
P 2205 432	Development of Japanese Character and Culture
R 1599 210	Religion of the North American Indians*
T 2001 243	Psychology of Pan African Novels

Survey Courses

C 2204 100	Introduction to Economics
C 2204 101	Principles of Economics: Macro
C 2204 102	Principles of Economics: Micro
J 2202 100	Cultural Anthropology*
J 2202 203	Anthropological Linguistics
J 2202 205	Prehistoric Archaeology
N 2206 101	Introduction to Cultural Geography
Q 1505 210	Introduction to General Linguistics
T 2001 101	General Psychology I: Growth and Development
U 2208 100	The Sociological Perspectives

Topic courses

B 0838 101	Contemporary Business
C 2204 215	Economics of Social Problems*†
C 2204 403	Comparative Economic Systems
J 2202 200	Urban Anthropology*†
J 2202 202	Cultural Change and Modernization
J 2202 207	American Folk Culture
N 2206 102	World Geography
N 2206 206	Introduction to American Urban Studies*
N 2206 308	Land and Life in Latin America
N 2206 313	Urban Geography*†
Q 1505 245	Language and Culture
Q 1505 330	Sociolinguistics
S 2207 102	Institutions of American Government
S 2207 103	American Political Process
S 2207 200	Introduction to Politics
T 2001 105	The Psychological Study of Social Issues
T 2001 200	Educational Psychology
T 2001 201	Child Psychology
T 2001 202	Adolescent Psychology
T 2001 225	Psychology of Adjustment
T 2001 265	Psychology of Women*
U 2208 101	Criminology
U 2208 201	Social Structure of American Society
U 2208 202	Racial and Ethnic Relations*†

U 2208 204	Sociology of the Family
3 0821 440	Sociological Foundations of Education
6 1304 231	The Family in the Economic System
6 1305 140	Family in Society

ELECTIVES

Creative Expression

G 1001 103	Visual Arts Studio I
G 1001 104	Visual Arts Studio II
G 1001 107	Drawing I
G 1001 125	Multi-Media I
G 1001 215	Drawing II
G 1001 220	Life Drawing I
G 1001 225	Multi-Media II
G 1001 280	Life Drawing II
G 1001 311	Intermediate Papermaking I
G 1002 200	Painting I
G 1002 201	Painting II
G 1002 211	Sculpture I
G 1002 212	Sculpture II
G 1002 244	Sculpture: Modeling and Casting I
G 1002 245	Sculpture: Carving I
G 1002 246	Sculpture: Metal Casting I
G 1002 247	Sculpture: Fabrication I
G 1002 248	Sculpture: Welding-Brazing I
G 1002 249	Sculpture: Clay I
G 1002 250	Figurative Painting
G 1002 254	Sculpture: Modeling and Casting II
G 1002 255	Sculpture: Carving II
G 1002 256	Sculpture: Metal Casting II
G 1002 257	Sculpture: Fabrication II
G 1002 258	Sculpture: Welding - Brazing II
G 1002 259	Sculpture: Clay II
G 1010 218	Film Making I
G 1010 219	Film Making II
G 1011 213	Photography I: A Contemporary Art Form
G 1011 214	Intermediate Photography: A Contemporary Art Form
G 1011 231	Humorous and Satirical Illustration for Publication
G 1090 200	Leather I
G 1090 202	Ceramics, Pottery and Sculpture I
G 1090 203	Ceramics, Pottery and Sculpture II
G 1090 204	Fibers and Fabrics I
G 1090 205	Fibers and Fabrics II
G 1090 206	Leather II
G 1090 207	Surface Design I
G 1090 210	Textile Design I
G 1090 225	Surface Design II
G 4921 120	Introduction to Printmaking
G 4921 200	Introduction to Intaglio and Relief Printing
G 4921 202	Introduction to Lithography
H 1004 100	Class Piano for Non-Music Majors
H 1004 103	Voice Class for the Non-Music Major
H 1004 105	Modern Guitar Workshop
H 1005 250	Sounds of the City
H 1016 150	Fundamentals of Music for the Non-Major
I 1007 122	Acting I
I 1506 160	Oral Interpretation of Literature
I 1506 363	Reader's Theatre

Personal/Professional Issues

B 0838 309	Personal Finance
G 1095 250	Introduction to Art Therapy
G 1095 310	Group Art Therapy and Creativity Development
Q 1401 200	Introduction to Law and Legal Professions
T 2001 103	Freshman Seminar
U 2208 206	Individual and Society
2 0826 330	Dynamics of One-to-One Communication
2 0826 331	Group Dynamics
2 0826 432	Personal Values
2 0826 482	Career Consciousness
5 0837 101	Health for Personal Living
5 0837 220	Mental Health

*Meets Minorities Culture Requirement

†Meets Human and Intercultural Relations Requirement for teacher certification.

- 5 0837 290 Human Sexuality
- 6 1301 141 Interpersonal Relations
- 6 1303 122 Clothing and Culture: A Multidisciplinary Study
- 6 1305 320 Parenting Skills and Resources

LEGEND OF DEPARTMENTAL CODES

- A Accounting, Law and Taxation
- B Business Education and Office Systems Administration
- C Economics
- D Finance and Quantitative Methods
- E Management
- F Marketing
- G Fine Arts
- H Music
- I Speech and Theatre
- J Anthropology
- K Classics
 - General Humanities
- L Communication Sciences and Disorders
- M English
- N Environmental, Urban and Geographic Studies
- O French
 - German/Slavic
- P History
- Q Linguistics
 - Legal Studies
- R Philosophy and Religion
- S Political Science
- T Psychology
- U Sociology
- V Spanish/Italian
- W Biology
- X Chemistry
- Y Mathematics and Computer Science
- Z Geoscience/Physics
- 1 Curriculum and Teaching
 - Continuing Education
- 2 Counseling, Human Services and Guidance
- 3 Educational Foundations
- 4 Educational Leadership
 - Administration and Supervision
 - Media and Technology
 - Reading
 - Research and Evaluation
- 5 Health Professions
- 6 Home Economics
- 7 Industrial Studies
- 8 Physical Education, Recreation and Leisure Studies
- 9 Cooperative Education
 - Women's Studies





ACADEMIC PROGRAMS by departments

Accounting, Law and Taxation

SCHOOL OF BUSINESS ADMINISTRATION

Chairperson: Lee Primiano

Increased government regulation and business expansion demand added expertise of today's accountant. The department's accounting program prepares students for careers in public and private accounting.

The Certified Public Accountant (CPA) is concerned with public accounting. CPA's render a variety of services for their clients: conducting independent audits and providing accounting, tax, and a variety of management advisory services. The program meets the educational requirements for admission to the CPA examination.

In the private sector, graduates are prepared primarily for industrial accounting leadership positions. The program emphasizes the structure, design, and analysis of accounting systems in the financial reporting and management decision processes.

A Bachelor of Science degree is offered in Business Administration with specializations in professional accounting and managerial accounting.

Business Administration Major

Required Courses

	Semester Hours
0502 201 Fundamentals of Accounting I	3
0502 202 Fundamentals of Accounting II	3
0501 261 Legal Environment of Business I	3
0503 270 Statistics for Business	4
0506 311 Management Process and Organizational Behavior	4
0504 321 Fundamentals of Finance	3
0509 340 Introduction to Marketing	3
0503 372 Management Science	4
0506 439 Business Policy	3
0503 463 Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113 Mathematics for Business I	3
1701 114 Mathematics for Business II	3
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3

Specializations Within the Major

Professional Accounting

Required Courses

	Semester Hours
0502 301 Intermediate Accounting I	4
0502 302 Intermediate Accounting II	4
0502 303 Auditing Theory and Practice	3
0502 307 Cost Accounting and Control I	3
0502 403 Tax Accounting	3

Electives

Select 3 semester hours from the appropriate list to be obtained from the department

Managerial Accounting

Required Courses

0502 301 Intermediate Accounting I	4
0502 302 Intermediate Accounting II	4
0502 307 Cost Accounting and Control I	3
0502 308 Cost Accounting and Control II	3

Electives

Select 6 semester hours from the appropriate list to be obtained from the department

Courses of Instruction

A 0501 261
LEGAL ENVIRONMENT OF BUSINESS I 3.0
A study of the legal principles of a governed society and the social forces within such a society. Special attention is accorded to the law of contracts and of agency, employing the uniform commercial code as a basis for interpretation. Case material.

A 0501 262
LEGAL ENVIRONMENT OF BUSINESS II 3.0
An analysis of the law of commercial paper and sales with an introduction to secured transactions. The basic statutory source employed is the uniform commercial code. Case material (recommended for CPA preparation).

Prerequisite: A 0501 261.

A 0501 263
LEGAL ENVIRONMENT OF BUSINESS III 3.0
An analysis of the law of partnerships and corporations including the nature of formation, rights and duties of parties, and dissolution. The basic statutory sources employed are the uniform partnership act and the model business corporation act; case material.
Prerequisites: A 0501 262, D 0504 321.

A 0501 464
LEGAL PROBLEMS OF THE MARKETING PROCESS 3.0
The historic and social relationships of law and marketing. The legal frame work including (1) the relationship of administrative agencies to enforcement of legislative policy; (2) governmental regulation of anti-competitive business behavior; (3) regulations protecting consumers; and (4) regulations protecting the use of intellectual property. Legal problems of international marketing and distribution.
Prerequisites: A 0501 261, F 0509 340.

A 0502 200
ACCOUNTING FOR NON-BUSINESS MAJORS 3.0
This is a basic course in the concepts and uses of financial data as it relates to business decision making.

A 0502 201
FUNDAMENTALS OF ACCOUNTING I 3.0
 Mastery of the fundamental elements of accounting, journalizing, posting, taking a trial balance, preparing financial statements, and closing books, special journals and controlling accounts.
Prerequisites: Y 1701 113, 114; C 2204 101, 102.

A 0502 202
FUNDAMENTALS OF ACCOUNTING II 3.0
 Builds on financial accounting. Corporation accounting, bonds payable, investments, manufacturing costs, fund flow analysis and profit-volume relationships.
Prerequisite: A 0502 201.

A 0502 301
INTERMEDIATE ACCOUNTING I 4.0
 The preparation of advanced accounting statements, valuation of current and fixed assets, intangible assets, current liabilities and investments.
Prerequisite: A 0502 202.

A 0502 302
INTERMEDIATE ACCOUNTING II 4.0
 A continuation of principles underlying financial statements, long-term liabilities, present value analysis, corporate capital, funds flow and special purpose funds.
Prerequisite: A 0502 301.

A 0502 303
AUDITING THEORY AND PRACTICE 3.0
 The conduct of audits of various types, the balance sheet audit, audit working papers, correction of books and preparation of audit reports.
Prerequisite: A 0502 302.

A 0502 307
COST ACCOUNTING AND CONTROL I 3.0
 The determination of product costs and elements of cost control applied to basic job order, process and standard cost systems. The nature of manufacturing costs and the use of accounting data in decision-making.
Prerequisite: A 0502 202.

A 0502 308
COST ACCOUNTING AND CONTROL II 3.0
 Estimating cost, budgets and costs, standard cost, analysis and control of costs, break-even analysis and differential cost analysis.
Prerequisite: A 0502 307.

A 0502 401
ADVANCED ACCOUNTING 3.0
 Accounting problems peculiar to consolidated financial statements, partnership accounts and special sales procedures.
Prerequisite: A 0502 302.

A 0502 403
TAX ACCOUNTING 3.0
 A comprehensive picture of the federal tax structure, the determination of net income, credits exemptions and rates for various taxpayers.
Prerequisite: A 0502 202.

A 0502 404
CURRENT TAX PROBLEMS 3.0
 Advanced phases of income taxation with particular attention to corporations, partnerships and estates.
Prerequisite: A 0502 403.

Anthropology

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Bertha B. Quintana

All peoples and all aspects of human life are the subject of anthropology. It stresses objectivity through the study of other peoples; gives insight from the studies that others make of us; and teaches responsibility by applying the results to our rapidly changing, evolving world.

The four basic fields: cultural anthropology, archaeology, physical anthropology, and anthropological linguistics are represented in the department. The major prepares students for advanced work in the discipline which can lead to college teaching, museum work and/or research. By providing diversity in courses, the student can prepare for non-academic careers as well—e.g., community service agencies, multi-national corporations, public health programs, urban renewal, international relations. Programs can also be adapted to meet certification for teaching secondary school social studies in New Jersey. For those interested in a liberal arts background, anthropology is an excellent program which can be combined with career-oriented majors and minors.

The department also has a unique apprenticeship experience designed to test theories learned in the classroom and to gain practice in the field. Montclair State College is one of the few colleges in the country to offer this to undergraduates.

Anthropology Major

Required Courses

	Semester Hours
2202 100 Cultural Anthropology	3
2202 101 Physical Anthropology	3
2202 203 Anthropological Linguistics	3
2202 205 Prehistoric Archaeology	3

Electives (Cross-cultural)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Electives (Theory and Methods)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Note: Work in supportive areas—e.g., transcultural studies (including non-western history and cultural geography), urban studies, social psychology, primitive art, ethno-musicology, the natural sciences, statistics, sociology, linguistics, and foreign languages—is strongly recommended and should be discussed with major advisors.

Teacher Certification (Social Studies)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Courses of Instruction

J 2202 100
CULTURAL ANTHROPOLOGY 3.0
Analysis of transcultural data, basic methodologies, concepts and goals of anthropology, the nature of culture, its role in human experience and its universality.

J 2202 101
PHYSICAL ANTHROPOLOGY 3.0
The biological basis of human evolution including surveys of human paleontology, primatology and human races. The relationship of culture to human development; lectures, field trips and the use of fossil and audio-visual materials.

J 2202 200
URBAN ANTHROPOLOGY 3.0
The dynamics of acculturation that characterize the relationships between urban subcultures and the broader urban community. Emphasizes values, personality, behaviors and other aspects of the adjustment of people whose lifestyles set them apart from the dominant society.

J 2202 202
CULTURAL CHANGE AND MODERNIZATION 3.0
Cultural development, growth, transmission, perpetuation and change. The concept of modernization and its implications for folk and urban culture.

J 2202 203
ANTHROPOLOGICAL LINGUISTICS 3.0
Linguistic systems analyzed through informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages. The relationship of linguistic structure and theory to cultural systems. Cross listed with Linguistics (Q1505 203).

J 2202 204
ANTHROPOLOGY OF RELIGION 3.0
Patterns of religious beliefs and behaviors which relate to sacred, supernatural entities. Origin theories, divination, witchcraft, mythology and the relationship of religious movements to other aspects of culture.

J 2202 205
PREHISTORIC ARCHAEOLOGY 3.0
The development, method and theory of anthropological archaeology, analysis and interpretation of prehistoric cultural data by means of audio-visual, field and participatory involvement.

J 2202 206
HUMAN VARIATION 3.0
The study of various races from the perspective of physical anthropology. Theories and explanations of human variations, racial types in the modern world, as well as misconceptions concerning race, intelligence, and culture will be explored.

J 2202 207
AMERICAN FOLK CULTURE 3.0
Introduction to American folklore and folklife. Folklore theory and traditions, and the presentation and analysis of material folk culture.

J 2202 214
CONFLICT AND VIOLENCE 3.0
Interdisciplinary study of the social sources of violence and conflict contrasted to biological and other approaches. Types of violence and conflict including war, crime, interpersonal and institutional violence, class, ethnic and racial hostilities, etc. Also listed under Sociology as U 2208 214.

J 2202 301
PEOPLES OF AFRICA 3.0
Diversity in the lifestyles of representative African cultures; prehistory, culture change, and contemporary problems in sub-Saharan Africa.

J 2202 302
NATIVE LATIN AMERICANS 3.0
Study of indigenous peoples of Latin America. Surveys earliest evidence of human occupation of Middle and South America and the Caribbean; diverse origins of food production; intellectual achievements; political organization; material contributions to world culture; and aspects of early European contact and conquest.

J 2202 304
PEOPLES OF THE SOVIET UNION 3.0
Selected ethnic, linguistic and religious identities within the borders of the Soviet Union. Russian influence on culture change among non-Russian peoples.

J 2202 305
NATIVE NORTH AMERICANS 3.0
Amerindian cultures north of Mexico: representative tribes, their world views, and their adaptations to the environment, each other, and European contact.

J 2202 311
ANTHROPOLOGY OF AMERICAN SUBCULTURES 3.0
Analysis of the diversity of racial, ethnic, religious, occupational, and other subcultures and subgroups within the U.S. Emphasis on the character of American culture. Subpopulations are examined in relationship to each other and to the mainstream culture.

J 2202 312
PEASANT CULTURE 3.0
Persistence and change among selected peasant peoples of the world. Characteristics of peasant society, personality in peasant culture, and modernization trends and effects. Guest lectures by cultural historians.

J 2202 313
ARCHAEOLOGY OF ANCIENT MIDDLE AMERICA 3.0
The archaeology of ancient cultures of Middle America. Consists of two major units: (1) Northern Mesoamerica, the Gulf Coast, Oaxaca and Central Mexican Aztecs; (2) Ancient Maya of Mexico and Central America.

J 2202 401
SEMINAR IN ANTHROPOLOGICAL THEORY 3.0
This course examines the development of anthropological theory. Various sub-disciplines of cultural and social anthropology are explored and applied to relevant bodies of theoretical data.
Prerequisites: 6 hours of anthropology.

J 2202 405
PSYCHOLOGICAL ANTHROPOLOGY 3.0
Transcultural focus on the interrelated nature of culture and human behavior. Interdisciplinary course with emphasis on mutual dependencies anthropological and psychological theory and method. Students work with bicultural informants. Cross-listed with Psychology (T 2001 405).
Prerequisites: J 2202 100 or T 2001 101.

J 2202 406
ANTHROPOLOGY OF AGING AND THE AGED 3.0
An analysis of the influences of cultural systems on the processes of aging. Special emphasis is placed on the behaviors and meanings attached to stages of growing older in a variety of cultural systems.

J 2202 407
INDEPENDENT RESEARCH IN ANTHROPOLOGICAL THEORY AND METHOD 3.0-0
Directed research towards the preparation of written papers, stress on fieldwork, library research and problem orientation. A tutorial with formal class meetings.
Prerequisite: Departmental approval.

J 2202 411
ARCHAEOLOGICAL FIELD METHODS 3.0
 Provides practical field experience in the various aspects of survey and excavation techniques. A specific area will be surveyed and a site will be excavated.

Prerequisite: J 2202 205 or instructor's permission.

J 2202 412
CULTURAL ECOLOGY 3.0
 The relationships between culture and the biophysical environment, as well as the cultural environment. The emphasis will be on primitive and non-western cultures.

J 2202 413
MEDICAL ANTHROPOLOGY 3.0
 Examines the study of medical care in comparative societies (ethnomedicine) as well as the historical and ecological aspects of disease in human evolution.

Prerequisite: J 2202 101 or instructor's permission.

J 2202 414
SELECTED ISSUES IN ANTHROPOLOGY 3.0
 Identification and analysis of contemporary issues and problems in anthropology—e.g., models of society, new directions in anthropological inquiry and methodology, etc.

Prerequisite: 6 semester hours in anthropology.

J 2202 415
WOMEN IN TRADITIONAL SOCIETY 3.0
 Surveys several traditional preindustrial societies with special emphasis on the place of women in each society studied. The connections between environment, technology and the female work role are investigated, and the amount of power women have over their own lives and those of others is assessed. The place of women in each society's symbolic systems is also analyzed.

J 2202 419
EXPERIMENTAL ARCHAEOLOGY 3.0
 The course will cover the manufacture, use, preservation, analysis, and cataloging of prehistoric artifacts made of stone, bone, and wood.

Prerequisite: J 2202 205 or, J 2202 411.

J 2202 420
APPRENTICESHIP IN ANTHROPOLOGY 6.0-12.0
 According to interest and preparation, students are placed in cooperating agencies in order to provide an opportunity to test their acquired theoretical knowledge and to gain disciplined practice in their profession. Under faculty guidance and agency supervision, students are to engage in anthropological fieldwork by conducting research and/or special projects.

Prerequisite: 24 hours in anthropology, 6 additional hrs. in social and behavioral sciences.

J 2202 430
FIELD METHODS LINGUISTICS 3.0
 Focuses on the development of the student's skill in gathering and analyzing linguistic data. Complements the more theoretically oriented courses in linguistics.

Prerequisite: J 2202 203 or Q 1505 210.

J 2202 432
DEVELOPMENT OF JAPANESE CHARACTER AND CULTURE 3.0
 The historical conditioning of Japanese behavior; cultural change in the perspective of traditional periodization of Japanese history, contributions of religion and philosophy to defining social values. Cross-listed with History (P 2205 432).

J 2202 461
CULTURAL HISTORY OF PRIMITIVE SOCIETIES 3.0
 Interdisciplinary approach to the aims, methods and techniques of ethnohistorical research. Documentary and non-documentary evidence in reconstructing the culture history of pre- or semi-literate societies. Cross listed with History (P 2205 461).

Prerequisite: J 2202 100 or P 2205 200

Biology

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

Chairperson: J. Michael McCormick

The student can prepare for a biology career, graduate work, or professional programs in medicine, dentistry, medical technology, and other fields related to biology, by taking the major requirements with a proper selection of electives. Students can obtain certification to teach biology by completing the professional sequence. A minor in biology is also available.

Outstanding students can take advantage of the honors program and be granted an "Honors in Biology" by fulfilling the prescribed requirements. For information about the program, contact the department chairperson.

Freshman courses offered for biology majors assume that the student has taken biology, chemistry and physics and at least three years of college preparatory mathematics in high school.

A major in toxicology is also offered and is described later in this catalog.

Biology Major

Required Courses

	Semester Hours
0401 140 Biology of the Cell	4
0401 121 The Plant Kingdom	4
0401 130 General Zoology I	4
0401 131 General Zoology II	4
0401 415 Genetics	4
0401 416 Genetics Laboratory Investigations	1

Collateral Courses

1905 120, 121 General Chemistry I, II	4 ea
1905 230, 231 Organic Chemistry I, II	3 ea
1905 232 Experimental Organic Chemistry I	2
1902 193, 194 College Physics I, II	4 ea

Select one sequence

1701 115 Precalculus Mathematics	3
1701 116 Calculus A	4
1701 122, 221 Calculus I, II	4 ea
1701 117, 118 Mathematics and Computer Science for the Life Sciences I, II	4, 3

Electives

Select 13 semester hours from the appropriate list to be obtained from the department 13

Biology Minor

Required Courses

0401 140	Biology of the Cell	4
0401 121	The Plant Kingdom	4
0401 130	General Zoology I	4
0401 131	General Zoology II	4
0401 415	Genetics	4

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. The course requirements are otherwise similar to those of the Biology Major, except that W 0401 140 is not required. In addition, for the Comprehensive Science and Biological Science certificates, two additional courses, W 0401 320 Plant Form and Function and Z 0834 401 The Teaching of Science in Secondary School, must be taken.

Second Teaching Field in Biological Sciences

Students majoring in another field desiring certification in biology in addition to one in their major field must take the following:

0401 140	Biology of the Cell	4
0401 121	The Plant Kingdom	4
0401 130	General Zoology I	4
0401 131	General Zoology II	4
0401 320	Plant Form and Function	4
0401 415	Genetics	4

Special Program Requirements

Biology Honors

- Biology Major
- Over-all Grade Point Average 3.5
- Biology Grade Point Average 3.7 with no grade lower than a "B"
- Additional Courses
 - 0401 418 Biology Independent Study
 - 0401 495 Independent Study in Biology Literature (2 Biology faculty sponsors needed)

Courses of Instruction

W 0401 100
BIOLOGICAL SCIENCES 4.0
Organization of plants and animals, structure, function, mechanisms of heredity, evolutionary change. Interrelationships of man, other organisms and environment. (3 hrs. lecture, 2 hrs. laboratory)

W 0401 103
BASIC BIOLOGY I 4.0
A study of the structure and function of cells, a survey of the plant kingdom describing the anatomy, physiology and ecology of plants with emphasis on the higher plants. (3 hrs. lecture; 3 hrs. laboratory.)

W 0401 104
BASIC BIOLOGY II 4.0
Adaptation of structure to function of cells, tissues and organs of plants and animals. Physical, chemical and ecological forces affecting these.

W 0401 106
BEHAVIOR IN THE WORLD OF ANIMALS 3.0
Survey of behavioral patterns employed in interactions between animals. Aggression, communication, reproductive behavior, development of social behavior. Not for biology majors.

W 0401 107
BIOLOGY FOR SURVIVAL 3.0
Basic concepts of biology that focus on social implications of pollution, population control, radiation, drugs, pesticides, the genetic revolution, etc. for non-science majors. (3 hrs. lecture)

W 0401 109
INTRODUCTORY ECOLOGY: THE LIVING WORLD 3.0
To acquaint the non-biology major with the general principles of plant and animal interactions and the adaptations of plants and animals to their habitats, including the extreme habitats of desert, cave, deep sea, and the arctic.

W 0401 110
THE BIOLOGY OF HUMAN LIFE 4.0
The biological basis to human development, birth, maturation, and aging. Not for biology major credit. (3 hrs. lecture, 3 hrs. laboratory)

W 0401 121
THE PLANT KINGDOM 4.0
Survey of the plant kingdom with emphasis on evolutionary trends and economic importance. (2 hrs. lecture, 4 hrs. laboratory)

W 0401 130
GENERAL ZOOLOGY I 4.0
An introduction to the animal kingdom. Phylogeny, anatomy, physiology, reproduction, development and ecology are discussed in relation to selected animal types. (3 hrs. lecture, 3 hrs. laboratory)

W 0401 131
GENERAL ZOOLOGY II 4.0
An introduction to the animal kingdom. Phylogeny, anatomy, physiology, reproduction, development and ecology are discussed in relation to selected animal types. (3 hrs. lecture, 3 hrs. laboratory)
Prerequisite: W 0401 130.

W 0401 140
BIOLOGY OF THE CELL 4.0
Form, function and evolution of cells. (3 hrs. lecture, 3 hrs. laboratory)

W 0401 212
HUMAN HEREDITY 3.0
A non-major course introducing concepts of classical hereditary and modern molecular genetics, which stresses the techniques and significance of genetic knowledge and research.

W 0401 213
INTRODUCTION TO FIELD BIOLOGY 2.0
Taxonomy, ecology and conservation are stressed for a ten-day period at the New Jersey State School of Conservation in Stokes State Forest.

W 0401 240
MAMMALIAN ANATOMY AND PHYSIOLOGY I 3.0
Human anatomy and physiology for health education and physical education majors. Not for biology majors. (2 hrs. lecture, 2 hrs. laboratory)

W 0401 241
MAMMALIAN ANATOMY AND PHYSIOLOGY II 3.0
Human anatomy and physiology for health education and physical education majors. Not for biology majors. (2 hrs. lecture, 2 hrs. laboratory)

W 0401 242					
HUMAN BIOLOGY	3.0				
Body structure and functions in relation to the maintenance of good health. Not for biology majors. (2 hrs. lecture, 2 hrs. laboratory)					
W 0401 243					
HUMAN ANATOMY AND PHYSIOLOGY	4.0				
A study of the dynamics of the human body in relation to its structure and function is based on its nutritional input. Each organ system is discussed in relation to its contribution to the whole functioning organism, as well as a basic survey of its pathologies. Primarily for ADA certification.					
<i>Prerequisite: X 1905 270.</i>					
W 0401 244					
ANATOMY AND PHYSIOLOGY OF MAMMALS I	4.0				
The structure and function of the cell, tissue and organ systems—integumentary, skeletal, muscular, circulatory and respiratory. Not for Biology Majors. (3 hours lecture, 2 hours lab)					
W 0401 245					
ANATOMY AND PHYSIOLOGY OF MAMMALS II	4.0				
The structure and function of the organ systems—nervous, excretory, endocrine, digestive and reproductive. Not for Biology Majors. (3 hours lecture, 2 hours lab)					
W 0401 254					
APPLIED MICROBIOLOGY	3.0				
Microbiological concepts and techniques applicable to food and dairy processing, health and disease, water, waste and other environmental problems. (2 hrs. lecture, 3 hrs. laboratory)					
<i>Prerequisite: One year chemistry or course in similar field.</i>					
W 0401 255					
SURVEY OF MICROBIOLOGY	4.0				
Microbiological concepts and techniques applicable to medical, health and environmental problems. (3 hrs. lecture, 2 hrs. laboratory)					
<i>Prerequisite: One year of chemistry or course in similar field.</i>					
W 0401 320					
PLANT FORM AND FUNCTION	4.0				
This course acquaints the student with the methods and tools of science. Morphology and physiology of the cell and of the plant as a whole are considered. (Not offered every year.)					
<i>Prerequisite: W 0401 121.</i>					
W 0401 350					
MICROBIOLOGY	4.0				
A study of bacteria, yeast, molds and other microorganisms in relation to modern biological concepts and the welfare of man. Standard techniques employed in the laboratory. (3 hrs. lecture, 3 hrs. laboratory)					
<i>Prerequisites: W 0401 140, X 1905 120, 121.</i>					
W 0401 370					
PRINCIPLES OF ECOLOGY	3.0				
To acquaint the biology majors with the general principles of ecology, population dynamics and adaptations of plants and animals to the various habitats. (2 hours lecture, 2 hours laboratory)					
<i>Prerequisites: One semester botany and two semesters zoology.</i>					
W 0401 409					
EXTERNSHIP IN BIOLOGICAL RESEARCH (COOPERATIVE EDUCATION)	1.0-4.0				
Full or part-time work in an established laboratory with a scientific investigator for the duration of the term.					
<i>Prerequisite: Approval of Director of Cooperative Education and Biology Department Cooperative Education Coordinator.</i>					
W 0401 415					
GENETICS	4.0				
Lecture only. Heredity, gene and chromosomal structure and function, gene regulation, mutation and repair, genes in population, genetic manipulation, and applied genetics are covered. Required for all biology majors.					
<i>Prerequisites: W 0401 140, 121, 1 yr. of chemistry</i>					
W 0401 416					
GENETICS LAB INVESTIGATIONS	1.0				
Laboratory exercises in the study of gene and chromosome structure and function, patterns of heredity including probability and statistics, and a semester-long research project, and a paper which will be required. This course is to be taken in conjunction with W 0401 415 Genetics and required for undergraduate biology majors					
<i>Corequisite: W 0401 415.</i>					
W 0401 418					
BIOLOGY INDEPENDENT STUDY	1.0-4.0				
Under the guidance of a sponsor, students will investigate individual problems of appropriate scope. A written and/or oral report is required. (Offered on demand.)					
W 0401 430					
FIELD ORNITHOLOGY	3.0				
Identification and natural history of birds in a variety of habitats. Trips on a varying schedule. (Not offered every year.) (1 hr. lecture, 3 hrs. laboratory)					
W 0401 431					
ENTOMOLOGY	3.0				
Identification, physiology and ecology of common insect families. (Not offered every year.)					
<i>Prerequisite: W 0401 130.</i>					
W 0401 432					
MEDICAL ENTOMOLOGY	3.0				
The study of arthropods that are vectors of diseases afflicting man and domestic animals.					
<i>Prerequisite: W 0401 130 or 431.</i>					
W 0401 434					
INTRODUCTORY MOLECULAR BIOLOGY	3.0				
This course is designed to examine the molecular biology of plant and animal cells.					
<i>Prerequisites: W 0401 350, 415; X 1905 370.</i>					
W 0401 435					
EXPERIMENTAL MOLECULAR BIOLOGY	2.0				
This laboratory course will introduce biology majors to the basic and important techniques of molecular biology.					
<i>Prerequisite: W 0401 434</i>					
W 0401 439					
BIOLOGY OF ANIMAL PARASITES	4.0				
The basic principles of parasitism. Ecological, morphological, and physiological adaptations for parasitism. Evolution of parasites and integration with the host.					
<i>Prerequisite: 1 year of zoology and/or botany. Genetics recommended.</i>					
W 0401 440					
MAMMALIAN ANATOMY AND HISTOLOGY	4.0				
Functional human anatomy at the microscopic and gross level. Laboratory dissection of the cat and study of prepared histological slides. (3 hours lecture, 3 hours laboratory)					
<i>Prerequisite: W 0401 131</i>					

W 0401 442
HUMAN PHYSIOLOGY 4.0
Functions of animal organs and systems with emphasis on maintenance of homeostasis.
Prerequisites: W 0401 440 or course in similar field.

W 0401 443
VERTEBRATE EMBRYOLOGY 4.0
Developmental anatomy of the vertebrates, especially amphibian, chick and human. General concepts of development and cell differentiation. (Not offered every year.)
Prerequisites: W 0401 130, 131.

W 0401 444
CELL PHYSIOLOGY 3.0
Advanced course in cell function.
Prerequisites: W 0401 442, X 1905 230, 231.

W 0401 445
IMMUNOLOGY 3.0
Cellular and humoral immunal responses, immunoglobulines, antigen-antibody reactions, immunopathology, transplantation and blood transfusion.

W 0401 446
ENDOCRINOLOGY 3.0
Basic anatomy and physiology of the mammalian endocrine glands with special attention directed to the human endocrine glands. The interrelationships between the various endocrines including neural control and the role of these glands in maintaining the homeostasis of the body will be stressed.

W 0401 460
BIOLOGICAL OCEANOGRAPHY 3.0
Biological processes within oceans and estuaries are considered in relation to the physical environment. Field and laboratory work. (Not offered every year.)
Prerequisites: W 0401 130, 121.

W 0401 461
LIMNOLOGY 3.0
Biological and physical processes of rivers and lakes. Field work and laboratory. (Not offered every year.)

W 0401 467
BIOLOGY OF THE FISHES 4.0
Systematics, adaptations, reproduction, evolution, ecology and zoogeography of major groups of marine fishes. At New Jersey Marine Sciences Consortium. (Not offered every year.)
Prerequisites: W 0401 131, 442.

W 0401 490
SELECTED TOPICS IN BIOLOGY 2.0-4.0
Course which will allow the advanced undergraduate student to study a single topic in depth. This course would allow the students an opportunity to integrate the principles of several areas (ecology, physiology, genetics, etc.) of biology in the study of a single topic.

W 0499 404
PLANT AND ANIMAL HISTOLOGICAL TECHNIQUES 3.0
Basic techniques and skills in preparation of permanent microscopic slides of plant and animal tissue. (1 hr. lecture, 3 hrs. laboratory.)
Prerequisite: 12 semester hours of biology.

W 0499 405
CELL CULTURE 3.0
Theory of and practice in working with living cells; tissue culture techniques, cell communication, differentiation, regeneration and aging in several living cell systems.
Prerequisite: All required biology courses (20 hrs.) plus instructor's permission.

W 0499 406
SCANNING ELECTRON MICROSCOPY 3.0
Introduction to theory and practice of scanning electron microscopy. Includes specimen preparation, scanning electron microscope operation, electron specimen interactions/imagery, and microanalysis.

W 1999 220
INTRODUCTION TO MARINE BIOLOGY 4.0
This is a field and laboratory oriented-course covering the characteristics of marine plants and animals. The course is designed to provide the student with experience in collection and identifying local marine flora and fauna.

Business Education and Office Systems Administration

SCHOOL OF BUSINESS ADMINISTRATION

Chairperson: Rosemarie McCauley

There are two major thrusts to the courses offered through the department. Students in the teacher education programs follow a professional sequence qualifying them for New Jersey teacher certification in a variety of business subjects. Four specializations are available for teacher education majors—accounting, distributive education, general business, and secretarial science.

Students in the office administration program develop skills that prepare them for careers in the office administration areas of word processing, records management, data processing, or office management. Students in the retail merchandising and management program develop skills that prepare them for careers as buyers, fashion coordinators, merchandisers, and retail executives. These two programs are concentrations in Business Administration offered through the Department of Business Education and Office Systems Administration.

All programs in the department lead to a Bachelor of Science degree and are open to high school graduates, as well as to those who have attended a two-year college.

Teacher Education

Professional Sequence: Identical for all four specializations in teacher education.

Pre-Professional Semester Courses:

	Semester Hours
0829 200 Initial Field Experience	1
0829 400 Teacher, School, and Society	3
0829 410 Intermediate Field Experience in Education	1
0830 407 Reading I: Theory & Process	3
0830 408 Reading II: The Content Areas	3
Departmental Methods	4
	15

Professional Semester

Student Teaching Package	13
------------------------------------	----

Collateral Courses

0821 220	Philosophical Orientation to Education	3
0838 273	Introduction to Business Data Processing	3
0838 309	Personal Finance	3
1701 109	Statistics	3
2001 101	General Psychology	3
2001 200	Educational Psychology	3
2204 100	Introduction to Economics	3
		21

Business Education Major

Specializations:

Accounting and General Business Education

Required Courses

	Semester Hours
0838 101 Contemporary Business	3
0838 306 Office Services and Applications	3
0838 335 Computer Applications of Office Systems	3
0845 320 Business Communications	3
0501 261 Legal Environment of Business I	3
0502 201, 202 Fundamentals of Accounting I, II	3 ea.
0502 403 Tax Accounting	3
0504 321 Fundamentals of Finance	3
0506 311 Management Process and Organizational Behavior	4
0506 439 Business Policy	3
0509 340 Introduction to Marketing	3

Comprehensive Business Education:

Required Courses

	Semester Hours
0838 101 Contemporary Business	3
0838 203 Production Typewriting	1
0838 303 Advanced Stenography and Transcription	2
0838 306 Office Services and Applications	3
0838 335 Computer Applications of Office Systems	3
0838 402 Principles and Methods of Teaching Accounting	2
0845 207 Word Processing Applications	3
0845 320 Business Communications	3
0501 261 Legal Environment of Business I	3
0502 201, 202 Fundamentals of Accounting I, II	3 ea.
0502 403 Tax Accounting	3
0504 321 Fundamentals of Finance	3
0506 311 Management Process and Organizational Behavior	4
0506 439 Business Policy	3
0509 340 Introduction to Marketing	3

Distributive Education and General Business Education

Required Courses

	Semester Hours
0838 101 Contemporary Business	3
0838 401 Principles and Methods of Teaching General Business	2
0844 208 Salesmanship	3
0844 249 Merchandise Information	2
0844 307 Retail Store Merchandising and Management	3
0844 308 Visual Merchandising	3
0844 309 Buying for Distribution	2
0844 348 Practicum in Distributive Education I	1
0844 450, 451 Supervised Work Experience and Seminar I, II	2 ea.

0844 454	Principles & Methods of Teaching Distributive Education	3
0844 455	Curriculum Development of Distributive Education	3
0998 411	Principles and Philosophy of Vocational Education	1
0501 261	Legal Environment of Business I	3
0502 201, 202	Fundamentals of Accounting I, II	3 ea.
0504 321	Fundamentals of Finance	3
0506 311	Management Process and Organizational Behavior	4
0506 439	Business Policy	3
0509 340	Introduction to Marketing	3

Secretarial and General Business Education

Required Courses

		Semester Hours
0838 101	Contemporary Business	3
0838 203	Production Typewriting	1
0838 303	Advanced Stenography and Transcription	2
0838 306	Office Services and Applications	3
0838 335	Computer Applications of Office Systems	3
0845 207	Word Processing Applications	3
0845 320	Business Communications	3
0501 261	Legal Environment of Business I	3
0502 201, 202	Fundamentals of Accounting I, II	3 ea
0504 321	Fundamentals of Finance	3
0506 311	Management Process and Organizational Behavior	4
0506 439	Business Policy	3
0509 340	Introduction to Marketing	3

Teacher Certification

Students wishing certification must be accepted into the Teacher Education program. They must follow the professional sequence outlined both in this department and the Teacher Education program. See the department of Curriculum and Teaching for admission requirements.

Business Administration

Office Systems Administration Concentration

This is a concentration in Business Administration offered through the Department of Business Education and Office Systems Administration.

Required Courses

	Semester Hours
0838 306	Office Services and Applications 3
0838 335	Computer Applications of Office Systems 3
0845 308	Principles of Office Management 3
0845 320	Business Communications 3
0845 321	Records Management 3
0845 409	Word Processing Management 3
0845 411	Managing Automated Office Systems 3
0845 430	Seminar in Office Systems Administration 3
0501 261	Legal Environment of Business I 3
0502 201, 202	Fundamentals of Accounting I, II 3 ea.
0504 321	Fundamentals of Finance 3
0506 311	Management Process and Organizational Behavior 4
0506 316	Human Resource Management 3
0506 439	Business Policy 3
0509 340	Introduction to Marketing 3

Collateral Courses

0838 273	Introduction to Business	
	Data Processing	3
1701 109	Statistics	3
2001 101	General Psychology	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3

Electives Within the Major 6

Non-Business Electives 14

Retail Merchandising and Management Concentration

This is a concentration in Business Administration offered through the Department of Business Education and Office Systems Administration:

Required Courses

	Semester Hours
0844 208 Salesmanship	3
0844 249 Merchandise Information	2
0844 308 Visual Merchandising	3
0844 307 Retail Store Merchandising and Management	3
0844 309 Buying for Distribution	2
0844 348 Practicum in Distributive Education I	1
0844 450, 451 Supervised Work Experience and Seminar I, II	2 ea.
0844 482 Independent Owned and Franchised Retailer	3
0844 483 Seminar in Retail Management	3
0501 261 Legal Environment of Business I	3
0502 201, 202 Fundamentals of Accounting I, II	3 ea.
0504 321 Fundamentals of Finance	3
0506 311 Management Process and Organizational Behavior	4
0506 439 Business Policy	3
0509 340 Introduction to Marketing	3
0509 442 Marketing Research	3
0509 446 Marketing Strategy and Implementation	3

Collateral Courses

		Semester Hours
0838 273	Introduction to Business	
	Data Processing	3
1701 109	Statistics	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3

Electives Within the Major 8

Non-Business Electives 9

Courses of Instruction

B 0838 101
CONTEMPORARY BUSINESS 3.0
 The organization and operation of contemporary business is explored. Students study the operation of the free enterprise system, alternative economic systems, and the various functional areas of business: finance, management, production, and marketing.

B 0838 103
BEGINNING KEYBOARDING 3.0
 Beginning keyboarding is designed for those students who have had no previous keyboarding instruction. The course offers basic instruction on the alpha-numeric keyboard in learning the touch method of keyboarding, as well as in developing skill in using the keyboard for communication and information processing, e.g., preparation of basic business and personal letters, business reports, tables and other related applications. The course meets four periods per week.

B 0838 104
INTERMEDIATE KEYBOARDING 3.0
 This course is designed for students who have had previous keyboarding instruction. Students will develop increased speed and accuracy and will apply their keyboarding skill in the production of business-related projects. The ultimate aim is to develop proficiency in keyboarding applications. The course meets four periods a week.
Prerequisite: B 0838 103.

B 0838 203
PRODUCTION TYPEWRITING 1.0
 Taken in conjunction with methods of teaching typewriting. The technicalities of typewriting procedures; vocational competency in production typewriting.
Prerequisite: B 0838 104.

B 0838 204
PRINCIPLES OF SPEEDWRITING 3.0
 The aim of this course is to provide a marketable skill for office and/or professional career areas to complement any undergraduate program of Montclair State College.

B 0838 205
BEGINNING STENOGRAPHY 3.0
 The theory of Gregg Series 90 Stenography. Learning to read shorthand fluently and to take dictation on familiar material.

B 0838 206
INTERMEDIATE STENOGRAPHY AND TRANSCRIPTION 3.0
 Gregg Stenography Theory reviewed; unfamiliar dictation given at moderate speeds; vocabulary building; transcription techniques.
Prerequisite: B 0838 205.

B 0838 273
INTRODUCTION TO BUSINESS
DATA PROCESSING 3.0
 This course introduces the student to the literature and vocabulary of business data processing—input and output media, to types of equipment, installations, job analysis, and systems development. The range covered extends from basic manual procedures to modern computer concepts and business problem programming in the BASIC language.

B 0838 303
ADVANCED STENOGRAPHY AND TRANSCRIPTION 2.0
 Taken in conjunction with methods of teaching shorthand. The transcription of shorthand notes into typewritten copy. Sentence structure, correct grammar, spelling and good typewriting techniques; increasing dictation speed for new material as the course progresses.
Prerequisite: B 0838 206.

B 0838 306
OFFICE SERVICES AND APPLICATIONS 3.0
 This course develops an awareness of the service functions performed in the office environment. Current trends in office procedures, supplies, and technological developments are explored. Self-developmental experiences and hands-on operation of calculating, reprographics, and audiovisual equipment are an integral part of the course.

- B 0838 309**
PERSONAL FINANCE 3.0
 The role of the consumer in the economy is studied with the emphasis on forces affecting consumer demand, governmental and private agencies aiding the consumer, and development of intelligent techniques for buying and using consumer goods and services.
- B 0838 335**
COMPUTER APPLICATIONS OF OFFICE SYSTEMS 3.0
 A course designed to prepare students to make decisions in the selection and utilization of microcomputer systems and appropriate software for a business environment based on identified needs; the factors to consider in the implementation of microcomputers at different levels of an organization; and the characteristics of specific software applications used in the business environment. The course also provides students with hands-on experience with commercial software packages and additional work in the structured programming cycle, including the coding and testing of programs using the BASIC programming language.
- B 0838 390**
BUSINESS INDEPENDENT STUDY I 2.0
 Each student, under the guidance of a faculty sponsor, conducts an in-depth study of a current problem in the business education field and presents a written report of the findings. Admission by application submitted to the department chairperson.
- B 0838 391**
BUSINESS INDEPENDENT STUDY II 2.0
 Each student, under the guidance of a faculty sponsor, is to conduct an in-depth study of a current problem in the business field. A written report of the findings of the study is to be presented. Admission is by application submitted to the department chairperson.
- B 0838 401**
PRINCIPLES AND METHODS OF TEACHING
GENERAL BUSINESS 2.0
 The methodology of teaching social business subjects, including general business, business law and consumer education. Content, lesson planning, visual aids and evaluation procedures.
Prerequisite: 12 semester hours of general business courses.
- B 0838 402**
PRINCIPLES AND METHODS OF TEACHING
ACCOUNTING 2.0
 The history and development of accounting instruction and materials, aims and objectives in light of current trends. Textbook selection, lesson planning, classroom procedures, tests and measurements, audio-visual and other teaching aids. A test of subject matter competency is required.
Prerequisite: 9 semester hours of accounting.
- B 0838 403**
PRINCIPLES AND METHODS OF TEACHING
STENOGRAPHY 1.0
 Complements B 0838 303 and is designed to prepare secretarial teachers for the teaching of stenography and transcription. Comprehensive coverage of the materials and methods for teaching stenography.
Prerequisite: B 0838 206.
- B 0838 404**
PRINCIPLES AND METHODS OF TEACHING
KEYBOARDING/TYPEWRITING 1.0
 Complements B 0838 204 and deals with the techniques of teaching beginning and advanced typewriting; emphasis on the psychology of skill development.
Prerequisite: B 0838 203.
- B 0838 409**
BUSINESS EDUCATION PROFESSIONAL SEMINAR 1.0
 Provides a forum for dialogue on problems and concerns in achieving effectiveness in the student teaching experience and subsequent related business education teaching.
Prerequisite: B 0838 401.
- B 0838 449**
SUPERVISED BUSINESS WORK EXPERIENCE 2.0
 An opportunity to work full time in a business position for ten weeks of the summer under college supervision. Weekly seminar to discuss problems related to the work experience program.
- B 0844 208**
SALESMANSHIP 3.0
 The role of personal selling in our economy and the diversity of sales positions are explored. Theories and concepts derived from the behavioral sciences are presented to develop an understanding of consumer behavior and basic selling techniques. Students apply their newly acquired selling skills in mock sales demonstrations.
- B 0844 249**
MERCHANDISE INFORMATION 2.0
 Textile and non-textile information; background selling information needed in retailing. Standards for determining quality of products and a knowledge of how to care for them. Manufacturing processes of various products.
- B 0844 307**
RETAIL STORE MERCHANDISING AND
MANAGEMENT 3.0
 Problems involved in the successful operation of a retail organization. preparation of the store for business, movement of merchandise from resource to store, preparation of merchandise for sale, movement of goods to the selling floor and to the customer.
- B 0844 308**
VISUAL MERCHANDISING 3.0
 The uses of color, line, and design principles to present and sell merchandise are explored. Students study and use basic visual merchandising techniques, tools, and equipment to design and build merchandise displays.
- B 0844 309**
BUYING FOR DISTRIBUTION 2.0
 Functions of the merchandising division; the buyer and merchandising problems. Also customer demand analysis, comparison shopping, planning the buyer's budget. Buying fashions, staples for independent, chain and resident buying offices, and foreign buying.
- B 0844 348**
PRACTICUM IN RETAILING DISTRIBUTIVE
EDUCATION I 1.0
 Junior professional experience for distributive education majors. Observation of distributive education classes and DECA activities. Teaching distributive subjects in community programs and governmental agencies.
Prerequisite: Acceptance in teacher education program in distributive education, or acceptance into retail management.
- B 0844 450**
SUPERVISED WORK EXPERIENCE AND SEMINAR I 2.0
 Full-time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited-price variety store. Weekly evening seminar on store activities and the development of executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer, following sophomore and junior years.
Prerequisites: B 0844 208, F 0509 341, majors only.
- B 0844 451**
SUPERVISED WORK EXPERIENCE AND SEMINAR II 2.0
 Full time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited price variety store, weekly evening seminar on store activities and the development executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer following sophomore and junior years.
Prerequisites: B 0844 208, F 0509 341.

B 0844 454
**PRINCIPLES AND METHODS OF TEACHING
 DISTRIBUTIVE EDUCATION AND COORDINATION** 3.0
 Federal legislation as it relates to the program; coordinator's duties; methods of teaching store subjects; lecture and demonstrations in teaching forms, reports and manuals; planning the lesson; human relations for store personnel; visual aids; textbook evaluation; trade journal use; and the DE club as a teaching device.
Prerequisite: B 0844 455.

B 0844 455
**CURRICULUM DEVELOPMENT OF
 DISTRIBUTIVE EDUCATION** 3.0
 Objectives of distributive education; organizing, administering, planning and supervising a complete cooperative program. Organization of vocational education on the federal, state and local levels; developing vocational competencies in curriculum; evaluation of curriculum; surveys of community and student needs; physical equipment requirements; advisory committees; and the use of public relations and extension programs.

B 0844 456
**HONORS PROGRAM - EXECUTIVE RETAIL TRAINING
 EXPERIENCE I** 4.0
 June through August work experience executive training honors program in retail merchandising with weekly class sessions, visitation to the stores. Course covers the division of a store. Student obtains experience in many departments studying the skills of the supervisor.
Prerequisites: B 0844 450 and 3.0 cumulative average.

B 0844 457
**HONORS PROGRAM - EXECUTIVE RETAIL TRAINING
 EXPERIENCE II** 4.0
 September through January work experience executive training honors program in retail merchandising with weekly class sessions, visitation to the stores. Course covers the division of a store. Student obtains experience in many departments studying the skills of the supervisor.
Prerequisites: B 0844 450 and 3.0 cumulative average.

B 0844 482
**THE INDEPENDENT OWNED AND
 FRANCHISED RETAILER** 3.0
 The principles and problems related to the independent and franchised retailer are discussed in theoretical and practical perspective. Lecture, research and case problems will integrate all steps from starting the business to evaluating the problems related to the business.
Prerequisites: B 0844 307, 309; Majors only.

B 0844 483
**SEMINAR IN RETAIL MERCHANDISING AND
 MANAGEMENT** 3.0
 Advanced problems in retail merchandising are covered. Lectures, research, visiting experts and case problems will integrate all previous courses taught. Strong emphasis will be placed on fashion and the computer in today's retail scene.
Prerequisites: B 0844 307, 309; retail majors only.

B 0845 207
WORD PROCESSING APPLICATIONS 3.0
 Enables students to develop competencies in handling word processing equipment by means of hands-on experiences using automated typewriters, text-editing equipment, and machine dictation/equipment. Simulation projects will be utilized to integrate the origination, workflow, work measurement, storage, and distribution procedures unique to word processing environments.
Prerequisite: B 0838 104, majors only.

B 0845 230
**INTRODUCTION TO BUSINESS WORK
 EXPERIENCE** 4.0-8.0
 This is an introductory cooperative education course which integrates formal classroom study and assignments with a supervised full-time or part-time off campus employment experience. The purpose of this course is to develop self awareness and explore educational and occupational alternatives.
Prerequisite: Sophomore level status, with 2.25 minimum grade point average.

B 0845 308
PRINCIPLES OF OFFICE MANAGEMENT 3.0
 A study of the most acceptable methods and practices of office administration. Topics include organization and planning of office systems, leadership and human relations, controlling operations, and processing of information. Emphasis throughout the course will be on achieving satisfactory human relations and continuous cost reduction.

B 0845 320
BUSINESS COMMUNICATIONS 3.0
 This course is designed to equip the students with a package of theoretical, written, and oral communication techniques applicable to the business domain.

B 0845 321
RECORDS MANAGEMENT 3.0
 Includes study of the criteria and methods by which records are created, stored, retrieved, retained and disposed, as well as attention to study of the managerial considerations necessary for effective selection and utilization of equipment, procedures, and personnel.

B 0845 330
**OFFICE SYSTEMS ADMINISTRATION PROFESSIONAL
 WORK EXPERIENCE PROGRAM** 4.0-8.0
 This is a cooperative education course specifically for Office Systems Administration majors. The course integrates formal classroom study and assignments with supervised full-time off-campus employment. It has as its primary goals the development of occupational competencies and pre-professional training.

B 0845 409
WORD PROCESSING MANAGEMENT 3.0
 An understanding of the need and effect of word processing on business productivity. Word processing systems will be investigated with emphasis on personnel, equipment needs, and cost savings.

B 0845 410
MICROGRAPHICS 3.0
 This course is designed to introduce students to micrographics and its applications in the business office. Basic concepts, terminology, and systems design and management will be emphasized.
Prerequisite: B 0845 321.

B 0845 411
MANAGING AUTOMATED OFFICE SYSTEMS 3.0
 Needed competencies for organizing and administering an automated office system will be emphasized. A systematic approach to designing, implementing, controlling, and integrating electronic office systems will be stressed. Various configurations, available technology and evaluation methods for assessing present and future systems will be investigated.
Prerequisites: B 0838 306, 335; 0845 309, 321.

B 0845 430
SEMINAR IN OFFICE SYSTEMS ADMINISTRATION 3.0
 Current developments in office systems administration will be investigated by student research teams in contemporary administrative office environments. Emphasis will be on helping students develop investigative and analytical skills.
Prerequisites: B 0838 306, 335; 0845 309, 321.

Chemistry

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

Chairperson: John L. Isidor

A student who chooses the chemistry major can prepare for graduate study in chemistry or biochemistry, professional employment, professional education in fields related to science, or teacher certification. The courses meet the undergraduate criteria established by the American Chemical Society (ACS). The chemistry major is included in the ACS list of approved programs. The student can complete ACS requirements and be certified to the Society upon graduation.

The curriculum is designed for students who have had high school chemistry, biology and physics, as well as four years of high school mathematics.

The department sponsors a challenging honors program for chemistry majors with outstanding academic records (at least 3.70 grade point average), an undergraduate research program and offers cooperative education work experiences. Those interested should see the department chairperson for information.

A Bachelor of Science degree is awarded to graduates in the chemistry major.

Chemistry Major

Required Courses

	Semester Hours
1905 120, 121 General Chemistry I, II	8
1905 230, 231 Organic Chemistry I, II	6
1905 232, 233 Experimental Organic Chemistry I, II	4
1905 310 Analytical Chemistry	5
1905 311 Instrumental Methods of Analysis	4
1905 340, 341 Physical Chemistry I, II	6
1905 343 Experimental Physical Chemistry	2
1905 495 The Chemical Literature	1-2

Collateral Courses

Select three Mathematics courses from:

1701 122, 221, 222 Calculus I, II, III	
1701 420 Differential Equations	12

Select two Physics courses:

Z 1902 191, 192 General Physics I, II	8
---------------------------------------	---

Electives (Major)

Select 6 semester hours from the appropriate list to be obtained from the department.

Chemistry Minor

Required Courses

	Semester Hours
1905 120, 121 General Chemistry I, II	8
1905 230, 231 Organic Chemistry I, II	6
1905 232, 233 Experimental Organic Chemistry I, II	4

Select one set

1905 310 Analytical Chemistry	5
1905 340, 343 Physical Chemistry I, and Experimental Physical Chemistry	5
1905 423, 422 Advanced Inorganic Chemistry and Experimental Inorganic Chemistry	6
or	
1905 370, 372 Biochemistry, and Experimental Biochemistry	5

Special Program Requirements

Semester Hours

B.S. in Chemistry with American Chemical Society Certification	10
--	----

In addition to taking the course requirements in the chemistry major program as detailed in I, a student who wishes to fulfill the minimum requirements for professional training of the American Chemical Society should elect the following courses:

1. One of the following courses:*

1905:0410 Advanced Analytical Chemistry	3
1905:0430 Advanced Organic Chemistry	3
1905:0440 Advanced Physical Chemistry	3

2. 1905:0423 Advanced Inorganic Chemistry

3. One of the following:

1905:0498 Senior Laboratory	3
1905:0499 Undergraduate Research (minimum)	3

*Courses used to fulfill the elective requirement C for the chemistry major cannot also be used to fulfill requirement #1 for ACS Certification. This restriction does not apply to ACS Certification requirements 2 and 3

The learning of certain other skills may be essential in an undergraduate chemistry program. This decision must be made by the student and his advisor. Included in this group are:

Foreign Language: a reading knowledge of German, Russian or French.

Mathematics: Linear algebra.

Computer Science: programming ability in BASIC and FORTRAN

Honors Program in Chemistry

Chemistry majors can apply for admission to the honors program in chemistry during their sophomore or junior years. Students accepted into the program will be required to take (in addition to the regular chemistry major) the following courses:

	Semester Hours
1905 491 Honors Seminar in Chemistry	2
1905 492 Honors Thesis in Chemistry	2

Interested students should contact the department chairperson.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. In addition, for the Comprehensive Science and Physical Science certificates, one biology course and Z 0834 0401 The Teaching of Science in Secondary Schools must be taken.

Second Teaching Field in Physical Science

Students majoring in a field other than chemistry and who desire certification in chemistry may take the physical science program. In addition to the certification program in their major field, the students must take the following courses:

1902 191, 192 General Physics I, II	8
Physics Elective	4
1905 120, 121 General Chemistry I, II	8
1905 230, 232 Organic Chemistry I and Experimental Organic Chemistry I	5

Courses of Instruction

- X 1905 100
INTRODUCTORY CHEMISTRY 4.0
An introductory lecture and laboratory survey course in modern chemistry for non-science majors.
- X 1905 102
CHEMISTRY AND THE HUMAN ENVIRONMENT 3.0
An introductory chemistry course for non-science majors which emphasizes a chemical understanding of substances in our environment such as plastics, pesticides, food additives, drugs, water and air pollutants, and fuels.
- X 1905 107
COLLEGE CHEMISTRY I 2.0
Introductory chemistry course for non-science majors. Fundamentals of inorganic chemistry.
- X 1905 108
COLLEGE CHEMISTRY II 2.0
Introductory chemistry course for non-science majors. Fundamentals of organic and biochemistry.
Prerequisite: X 1905 107.
- X 1905 109
COLLEGE CHEMISTRY LABORATORY I 1.0
Laboratory work to reinforce basic concepts of inorganic chemistry. Two hour laboratory.
Concurrent with X 1905 107.
- X 1905 110
COLLEGE CHEMISTRY LABORATORY II 1.0
Laboratory work to reinforce basic concepts of organic chemistry and biochemistry. Two hour laboratory.
Concurrent with X 1905 108.
Prerequisite: X 1905 109.
- X 1905 111
ELEMENTS OF CHEMISTRY I 3.0
Basic concepts of chemistry as applied to inorganic and organic compounds.
- X 1905 112
ELEMENTS OF CHEMISTRY II 3.0
A study of human biochemistry with emphasis on biomolecules, metabolism, and bioenergetics.
Prerequisite: X 1905 111.
- X 1905 120
GENERAL CHEMISTRY I 4.0
Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to atomic and molecular structure, bonding, thermochemistry, kinetics, chemical equilibrium, electro-chemistry, and selected topics in descriptive, inorganic chemistry. Laboratory stresses techniques and data treatment and their use in examining chemical systems.
Prerequisite: Instructor's permission or previous chemistry course.
- X 1905 121
GENERAL CHEMISTRY II 4.0
Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to atomic and molecular structure, bonding, thermochemistry, kinetics, chemical equilibrium, electro-chemistry and selected topics in descriptive, inorganic chemistry. Laboratory stresses techniques and data treatment and their use in examining chemical systems.
Prerequisite: X 1905 120.
- X 1905 130
FUNDAMENTALS OF ORGANIC CHEMISTRY 4.0
Survey of organic chemistry covering all major classes, nomenclature, and characteristic class reactions. (3 hrs. lecture, 2 hrs. laboratory.)
Prerequisite: X 1905 107 or equivalent.
- X 1905 195
PROBLEM SOLVING-GENERAL CHEMISTRY 1.0
Course designed to help students in application of elementary arithmetic with emphasis on individual needs.
- X 1905 230
ORGANIC CHEMISTRY I 3.0
Modern concepts of the chemistry of aliphatic and aromatic carbon compounds, their preparation, isolation, reactions and properties.
Prerequisite: X 1905 121.
- X 1905 231
ORGANIC CHEMISTRY II 3.0
Modern concepts of the chemistry of aliphatic and aromatic carbon compounds, their preparation, isolation, reactions and properties.
Prerequisite: X 1905 230.
- X 1905 232
EXPERIMENTAL ORGANIC CHEMISTRY I 2.0
A laboratory course to be taken concurrently with X 1905 230. Basic laboratory techniques and experiments in organic chemistry.
Prerequisite: X 1905 121.
- X 1905 233
EXPERIMENTAL ORGANIC CHEMISTRY II 2.0
A laboratory course to be taken concurrently with X 1905 231. Basic laboratory techniques and experiments in organic chemistry.
Prerequisite: X 1905 232.
- X 1905 270
FUNDAMENTALS OF BIOCHEMISTRY 5.0
Structure and function of the biomolecules and the metabolic interrelationships in the cell. (4 hrs. lecture, 3 hrs. laboratory)
Prerequisite: X 1905 130.
- X 1905 310
ANALYTICAL CHEMISTRY 5.0
Introduction to concepts of classical analytical chemistry including evaluation of data and apparatus, theory and application of volumetric and gravimetric and methods and redox equilibrium and introduction to electrical methods.
Prerequisites: X 1905 231, 233.
- X 1905 311
INSTRUMENTAL ANALYSIS 4.0
Introduction to application of instrumental methods of analytical chemistry. Instrument techniques studies will include spectrophotometry, electroanalytical chemistry, chromatography, nuclear magnetic resonance and mass spectrometry. Theory and application will be examined in lecture and laboratory.
Prerequisite: X 1905 310, 340.
- X 1905 320
ENVIRONMENTAL CHEMICAL ANALYSIS 3.0
A study of the sources, reactions, transport, effects, and fates of chemical species in the environment. Lecture and laboratory will stress the theory, methodology, instrumentation, and techniques of air, water, and soil analysis for contaminants. (Two hours of lecture and two hours of laboratory.)
Prerequisite: X 1905 233.
- X 1905 340
PHYSICAL CHEMISTRY I 3.0
Thermodynamics, homogeneous and heterogeneous equilibria, gas electrochemistry, solutions, colligative properties.
Prerequisites: X 1905 231, Z 1902 192, Y 1701 222.

X 1905 341
PHYSICAL CHEMISTRY II 3.0
 Kinetics, photochemistry, molecular physical chemistry
Prerequisites: X 1905 340, Z 1902 192, Y 1701 222.

Y 1905 343
EXPERIMENTAL PHYSICAL CHEMISTRY 2.0
 A laboratory course to be taken concurrently with X 1905 341. Application and experience with modern techniques of physical chemistry.
Prerequisite: X 1905 340.
Corequisite: X 1905 341.

X 1905 370
BIOCHEMISTRY 3.0
 Proteins, enzymes, nucleic acids, carbohydrates, lipids, organization of the living cell, intermediate metabolism and biosynthesis.
Prerequisite: X 1905 231.

X 1905 372
EXPERIMENTAL BIOCHEMISTRY 2.0
 Laboratory studies of carbohydrates, lipids, and proteins, enzyme action, using biochemical techniques.
Prerequisites: X 1905 231, 232, 370.

X 1905 423
ADVANCED INORGANIC CHEMISTRY 3.0
 Physical basis of inorganic structure and reactivity. Electronic structure of atoms, ionic and covalent bonding, acid/base chemistry, the chemistry of aqueous and nonaqueous solutions, coordination chemistry and chemical periodicity.
Prerequisite: X 1905 340.

X 1905 430
ADVANCED ORGANIC CHEMISTRY 3.0
 Consideration of structural and electronic theories which form the basis of organic chemistry.
Prerequisite: X 1905 231.

X 1905 440
ADVANCED PHYSICAL CHEMISTRY 3.0
 Quantum mechanics, bonding theory, atomic structure, statistical thermodynamical calculations.
Prerequisites: X 1905 341, Y 1701, 420.

X 1905 445
RADIOCHEMISTRY 3.0
 Introduction to radioactive decay, nuclear structure, interactions of radiations with matter, nuclear reactions and energetics. Emphasis on applications of radioactive materials to chemical studies and chemical analysis of nuclear systems.
Prerequisite: X 1905 340.

X 1905 447
BIOPHYSICAL CHEMISTRY 3.0
 Thermodynamics, equilibria, transport processes, kinetics, and electrochemistry as applied to cellular processes.
Prerequisite: X 1905 370.

X 1905 490
SELECTED TOPICS IN CHEMISTRY 2.0-3.0
 In-depth study of a modern aspect of chemistry.
Prerequisite: X 1905 231, instructor's permission.

X 1905 491
HONORS SEMINAR IN CHEMISTRY 2.0
 Seminars and discussions on selected areas in chemistry under faculty guidance for students enrolled in the honors program in chemistry.
Prerequisite: Admission to the honors program in chemistry or permission of the chemistry honors committee.

X 1905 492
HONORS THESIS IN CHEMISTRY 2.0
 Preparation and oral presentation of a comprehensive written thesis in chemistry under guidance of a faculty mentor for completion of the honors program in chemistry
Prerequisite: X 1905 491

X 1905 495
THE CHEMICAL LITERATURE 1 0-2 0
 The chemical literature and techniques of obtaining information from it
Prerequisite: X 1905 230 or equivalent, or instructor's permission
Corequisite: X 1905 231. Full participation in Chemistry Department's seminar program is required

X 1905 498
SENIOR LABORATORY 3.0
 Multi-disciplinary laboratory study of the synthesis, separation, and characterization of chemical compounds.
Prerequisites: X 1905 311, 341, 343.

X 1905 499
UNDERGRADUATE RESEARCH 1 0-3 0
 Laboratory work on a specific problem in chemistry under guidance of a faculty sponsor.
Prerequisites: 27 hrs. in chemistry and instructor's permission.

Classics

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Timothy Renner

Classical studies are an excellent foundation for a wide variety of careers, including law, business, medicine, journalism, diplomacy, teaching and many others. The department offers three major programs leading to the Bachelor of Arts degree: Classics, a broad major in ancient civilization; Latin, which emphasizes literature in the original language and includes work in Greek; and Latin (Teacher Education), which leads to teacher certification in New Jersey. Minors in Classics, Latin, Greek, and (with the cooperation of other departments) archaeology are also available. Students going on to graduate school in classics may need to take additional work in the languages and should consult the department about this.

Students majoring in other areas can profit from a knowledge of ancient culture and of Greek or Latin. For example, studying the ancient languages often helps to improve one's command of English. Also, a basic familiarity with Greek and Roman literature, history, archaeology, religion, or law can provide a new and different perspective on contemporary civilization.

Classics Major

Required Courses

	Semester Hours
4903 281 Greek Civilization	3
4903 282 Roman Civilization	3

Electives (Major)

- A. Select 5 courses from Latin (1109) and Greek (1110), including at least one course at the 200 level or above* 15
- B. Select 12 semester hours (including at least two courses at the 300 level or above) from the appropriate list to be obtained from the department 12

Latin Major

Required Courses

	Semester Hours
1110 101, 112 Beginning Greek I, II	6
6 Latin language and literature courses at the 200 level or above, including at least two of the following: 1109 201 Latin Literature of the Republic, 1109 202 Latin Literature of the Golden Age, 1109 203 Latin Literature of the Silver Age*	18

Electives (Major)

Select 3 courses from departmental list (4903 281 Greek Civilization, 4903 282 Roman Civilization, and other 4903 courses dealing with ancient history, archaeology, and classical civilization are especially recommended) 9

Latin Major (Teacher Education)

Required Courses

6 Latin language and literature courses at the 200 level or above, including at least two of the following: 1109 201 Latin Literature of the Republic, 1109 202 Latin Literature of the Golden Age, 1109 203 Latin Literature of the Silver Age* 18

1109 419 Methods of Teaching Latin 3

Electives (Major)

Select 4 courses from departmental list (1110 101, 112 Beginning Greek I, II; 4903 281 Greek Civilization; and 4903 282 Roman Civilization are especially recommended) 12

*Latin courses at the 200 level and above are taught on a four-year cycle.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Second Teaching Field in Latin

Students will choose 24 semester hours from the offerings in Latin language and literature.

Latin Minor

Students will take 18 semester hours in Latin language and literature (1109), to be chosen in consultation with a faculty advisor from the department.

Greek Minor

Students will take 18 semester hours in Greek language and literature (1110), to be chosen in consultation with a faculty advisor from the department.

Classics Minor

Students will take 18 semester hours in the department. All the work may be done in classical civilization and humanities courses, or the student may pursue studies in Greek and Latin language and literature.

Courses of Instruction

Latin

K 1109 101
BEGINNING LATIN I 3.0
The fundamentals of classical Latin grammar. Reading of simple Latin texts.

K 1109 112
BEGINNING LATIN II 3.0
The continuation of Beginning Latin I. Fundamentals of Latin grammar and reading of selected Latin texts.
Prerequisite: K 1109 101 or equivalent.

K 1109 121
INTERMEDIATE LATIN I 3.0
Review of grammar. Selected readings from Latin prose and poetry.
Prerequisite: K 1109 112 or equivalent.

K 1109 132
INTERMEDIATE LATIN II 3.0
Review of grammar. Selected readings from Latin prose and poetry.
Prerequisite: K 1109 121 or equivalent.

K 1109 201
LATIN LITERATURE OF THE REPUBLIC 3.0
A historical survey of the highlights of Latin literature from its beginnings to the death of Cicero. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context.
Prerequisite: K 1109 132 or equivalent.

K 1109 202
LATIN LITERATURE OF THE GOLDEN AGE 3.0
A historical survey of the highlights of Latin literature from the Second Triumvirate through the early Julio-Claudian period. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context.
Prerequisite: K 1109 132 or equivalent.

K 1109 203
LATIN LITERATURE OF THE SILVER AGE 3.0
A historical survey of the highlights of Latin literature from the Neronian period through the second century of the Christian era. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context.
Prerequisite: K 1109 132 or equivalent.

K 1109 204
LATIN LITERATURE OF THE MIDDLE AGES 3.0
The highlights of Latin literature from the disintegration of the Roman Empire in the West to the beginning of the Renaissance. Selections from poetry, history, philosophy, theology, and popular literature will be read with attention to style, development of the language, and historical context.
Prerequisite: K 1109 132 or equivalent.

K 1109 251
ROMAN LETTER WRITING 3.0
The public figure and the private citizen seen through the letters of Cicero and Pliny. The letters as evidence for Roman political and social history.
Prerequisite: K 1109 132 or equivalent.

K 1109 252
ROMAN DRAMA 3.0
 Selected comedies of Plautus and Terence with attention to style, form, dramatic technique, and literary ancestry. The influence of Roman comedy on subsequent European drama.
Prerequisite: K 1109 132 or equivalent.

K 1109 253
THE EPIC AND VERGIL 3.0
 Readings primarily from the *Aeneid* but including selections from the *Georgics* and *Eclogues*. Vergil as a literary artist and his role in the development of the epic in western literature.
Prerequisite: K 1109 132 or equivalent.

K 1109 254
ROMAN LYRIC POETRY 3.0
 Readings from the lyrics of Catullus and Horace, with particular emphasis on style, themes, and metrics.
Prerequisite: K 1109 132 or equivalent.

K 1109 255
OVID 3.0
 Selections from Ovid's works, principally the *Metamorphoses*, *Ars Amatoria*, *Amores*, and *Heroides*. Ovidian style, humor, and use of literary myth. Ovid's influence on literature and the arts.
Prerequisite: K 1109 132 or equivalent.

K 1109 284
CICERO AND ANCIENT PHILOSOPHY 3.0
 Cicero's philosophical essays with special attention to his role as a transmitter of Greek philosophy to the Roman and later western world.
Prerequisite: K 1109 132 or equivalent.

K 1109 310
LATIN COMPOSITION 3.0
 Practice in writing Latin prose in conjunction with review of grammar. Readings in selected Latin authors with a view toward acquiring familiarity with different prose styles.
Prerequisite: K 1109 132 or equivalent.

K 1109 351
ROMAN HISTORIANS 3.0
 Selected readings from Sallust, Livy, and Tacitus. The development of Roman historiography in the context of Roman history and the Greek historiographical background.
Prerequisite: K 1109 132 or equivalent.

K 1109 352
ROMAN SATIRE 3.0
 Readings from Horace, Juvenal, Petronius, and others. Different forms and definitions of satire. The Latin contribution to satire in western literature.
Prerequisite: K 1109 132 or equivalent.

K 1109 361
CAESAR: THE END OF THE REPUBLIC 3.0
 Selected readings from the *De Bello Gallico* and *De Bello Civili*. Caesar as a politician, general, man of letters, and historical source on his own conquests.
Prerequisite: K 1109 132 or equivalent.

K 1109 410
ADVANCED LATIN GRAMMAR 3.0
 Linguistic analysis of Latin grammar based on examples from classical authors. Practice in writing Latin prose.
Prerequisite: One Latin course at the 200 level or above; or permission of instructor.

K 1109 419
METHODS OF TEACHING LATIN 3.0
 The history of methodology together with new approaches and techniques. The development of a Latin curriculum, including evaluation of textbooks and construction of lesson plans, reviews, and tests.
Prerequisite: Three Latin courses at the 200 level or above.

K 1109 478
ADVANCED LATIN READINGS. SELECTED TOPICS 3.0
 Intensive reading and critical study of a selected author, genre, period, or theme in Latin literature. Topic to be announced each semester. May be repeated for credit with different topics.
Prerequisite: Permission of the department.

Greek

K 1110 101
BEGINNING GREEK I 3.0
 The fundamentals of ancient Greek grammar. Reading of simple texts.

K 1110 112
BEGINNING GREEK II 3.0
 The continuation of Beginning Greek I. The fundamentals of grammar and reading of selected texts.
Prerequisite: K 1110 101 or equivalent.

K 1110 121
INTERMEDIATE GREEK I 3.0
 Review of grammar. Selected readings from Greek prose and poetry.
Prerequisite: K 1110 112 or equivalent.

K 1110 132
INTERMEDIATE GREEK II 3.0
 Review of grammar. Selected readings from Greek prose and poetry.
Prerequisite: K 1110 121 or equivalent.

K 1110 261
GREEK NEW TESTAMENT 3.0
 Selected readings from the New Testament with attention to historical context and to the nature and development of Koine Greek.
Prerequisite: K 1110 132 or equivalent.

K 1110 262
GREEK EPIC POETRY 3.0
 Representative selections from the *Iliad* and *Odyssey*. Homer as an oral poet.
Prerequisite: K 1110 132 or equivalent.

K 1110 351
ATTIC ORATORS 3.0
 Representative works of Lysias, Isocrates, Demosthenes, and others. The orators as stylists and as a source for political and social history.
Prerequisite: K 1110 132 or equivalent.

K 1110 352
GREEK TRAGEDY 3.0
 Selected plays of Aeschylus, Sophocles, and Euripides. The metrics, style, themes, and structure of Attic tragedy. The influence of the Greeks on western drama.
Prerequisite: K 1110 132 or equivalent.

K 1110 361
GREEK HISTORIANS 3.0
 Readings from Herodotus, Thucydides, and Xenophon. The development of Greek historiography as a literary genre and as a medium for reporting events.
Prerequisite: K 1110 132 or equivalent.

K 1110 451
GREEK PHILOSOPHERS 3.0
Selected readings, especially from Plato's dialogues concerning the trial and death of Socrates. The Greek philosophical tradition and its development in the Archaic and Classical periods.
Prerequisite: K 1110 132 or equivalent.

K 1110 452
GREEK LYRIC POETS 3.0
Readings from the principal lyric, iambic, and elegiac poets, primarily those of the Archaic period. The development of theme, structure, and metre.
Prerequisite: K 1110 132 or equivalent.

Classical Civilization and Humanities

(All courses taught in English)

K 4903 181
CLASSICAL ARCHAEOLOGY 3.0
The science of evaluating Greco-Roman and closely related cultures through observation and analysis of their physical remains. Problems and methods of dating artifacts and sites. Building materials, types, and decorations. Field trip in addition to illustrated lectures and discussions.

K 4903 182
ENGLISH VOCABULARY: CLASSICAL ROOTS 3.0
Systematic development of the student's knowledge of English vocabulary through study of the most important Greek and Latin roots, prefixes, suffixes, and other elements and the ways in which they are used to form words in English.

K 4903 253
INTRODUCTION TO GREEK LITERATURE 3.0
Readings in English translation from selected ancient Greek epic, lyric, drama, historiography, philosophical and scientific writings, oratory. Literary forms, themes, and trends from Homer to the Hellenistic age.

K 4903 281
GREEK CIVILIZATION 3.0
The political, social, economic, and cultural history of the Greek world from the Bronze Age to the Roman conquest as seen through literary, documentary, and archaeological sources. (Also listed under History as P 2205 281.)

K 4903 282
ROMAN CIVILIZATION 3.0
The political, social, economic, and cultural history of the Roman world from the Regal Period to Justinian as seen through literary, documentary, and archaeological sources. (Also listed under History as P 2205 282.)

K 4903 285
MYTHOLOGY 3.0
The nature and interpretation of mythology, primarily as seen through the myths of Greece and Rome. Selected comparative study of myths of the Near East, Iran, India, and other cultures.

K 4903 351
THE CITY IN ANTIQUITY 3.0
Cities and city-based culture in the Greek and Roman world seen through the evidence of archaeology, literary sources, and contemporary documents such as inscriptions. Town planning, economic life, social groups, and population patterns in selected ancient cities.

K 4903 375
STUDY ABROAD 3.0
Approved study-travel programs at selected universities, classical sites, museums. Credit by evaluation.

K 4903 383
WOMEN IN ANTIQUITY 3.0
Women in the ancient world and their contributions to history, literature, philosophy, and the arts. Emphasis on Greco-Roman civilization, with comparative study of other ancient cultures.

K 4903 384
INTRODUCTION TO ROMAN LAW 3.0
The role of law in Roman history and society. Social structure and family law. The law and slavery. Property, contracts, and delicts. Legal forms, legal fictions, and the response of law to new conditions. Roman law in the medieval and modern periods.

K 4903 470
SEMINAR IN CLASSICAL HUMANITIES 3.0
Topic to be selected according to faculty and student interest and developed through an interdisciplinary approach.
Prerequisite: Permission of department.

Communication Sciences and Disorders

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Joseph S. Attanasio

The undergraduate curriculum in communication sciences and disorders provides a foundation for professional specialization at the master's level. Students progress through a sequence which emphasizes the normal use and development of speech, hearing and language. Subsequent courses consider the nature of communication disorders and principles related to their management. Supervised clinical experience with children and adults presenting communication disorders is available in the on-campus Communication Disorders Center, in the public schools and at special centers and clinical facilities in the community.

The program is designed to prepare students to obtain certification by the New Jersey State Department of Education in speech correction (speech-language pathology) for grades kindergarten through twelve. To that end, students are required to enter the teacher education program described in this catalog. The master's degree is a requirement for most employment in the field of communication disorders.

On completing the undergraduate curriculum, students pursue graduate study and concentrate in speech-language pathology, audiology, learning disabilities, or early childhood special education. A post-baccalaureate certification program in teacher of the handicapped is available. The undergraduate and graduate programs in communication sciences and disorders prepare the student to fulfill the requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association and for the N.J. licenses in speech-language pathology and audiology.

Communication Sciences and Disorders Major

Required Courses

	Semester Hours
1220 100 Fields of Communication Sciences and Disorders	3
1220 103 Fundamentals of Voice and Speech Production*	3
1220 104 Phonetic Study of Speech Sounds	3
1220 202 Language and Learning	3
1220 207 Hearing Science	3
1220 208 Anatomy and Physiology of the Speech System	3
1220 209 Voice and Articulation Disorders	3
1220 210 Clinical Process and Procedures in Speech-Language Pathology	3
1220 410 Neurophysiological Disorders of Communication	3
1220 411 Psychodynamics of Communication Disorders	3
1220 412 Diagnosis of Communication Disorders	3
1220 461 Introductory Practicum in Communication Disorders	3
1220 462 Intermediate Practicum in Communication Disorders	3

1220 464 Psychology of Oral Communication	3
1220 468 Clinical Procedures in Audiology	3
1220 469 Problems of the Hearing Impaired	3
1220 473 Organization and Administration of Speech and Hearing Programs	3
1220 483 Introduction to Language Disorders of Children	3

*Fulfills speech communications requirement for majors.

Note: Majors are urged to take Psychology of Exceptional Children and Youth to complete the state certification requirement

Electives

Select courses from the appropriate list to be obtained from the departmental advisors.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Courses of Instruction

L 1220 100
FIELDS OF COMMUNICATION SCIENCES AND DISORDERS 3.0

An orientation to practices in the field, philosophies of rehabilitation, areas of scientific inquiry and the relationship with other disciplines and specialties.

L 1220 101
FUNDAMENTALS OF SPEECH: COMMUNICATIONS REQUIREMENT 3.0

Understanding the process of oral communication and improving personal skills in speaking and listening. Developing clear, effective comprehension and expression of the spoken American-English language. Fulfills General Education Requirement - Speaking/Listening for non-majors.

L 1220 103
FUNDAMENTALS OF VOICE AND SPEECH PRODUCTION 3.0

Theory and practice of efficient voice production and accurate articulation. Students receive guidance in the improvement of their own speech skills.

L 1220 104
PHONETIC STUDY OF SPEECH SOUNDS 3.0

The articulation of sounds of American English, developing an understanding of articulatory features using the International Phonetic Alphabet.

L 1220 202
LANGUAGE AND LEARNING 3.0

An overview of theories that explore the relationship between cognition and language development of young children and the relationship between language and school learning. Introduction to the development of semantics, syntax and pragmatics. Observation techniques.

Prerequisite: L 1220 104

L 1220 207
HEARING SCIENCE 3.0

Basic acoustics, anatomy and physiology of the auditory mechanism, and a clinical orientation to impairments of hearing.

L 1220 208
ANATOMY AND PHYSIOLOGY OF
THE SPEECH SYSTEM 3.0
The anatomical and physiological basis of respiration, phonation and articulation-resonation.

L 1220 209
VOICE AND ARTICULATION DISORDERS 3.0
Voice and articulation problems of pre-school and school-age children. Strategies, techniques and materials for evaluation and remediation. ,
Prerequisites: L 1220 103, 104, 208.

L 1220 210
CLINICAL PROCESS AND PROCEDURES
IN SPEECH-LANGUAGE PATHOLOGY 3.0
An orientation to clinical practice. A model of the clinical process is presented which interfaces the interpersonal relationship with professional/technical competencies. Consideration is given to planning treatment programs, traditional and augmentative clinical approaches, therapeutic activities/materials, and clinical reporting.
Prerequisites: L 1220 104, 202, 209.

L 1220 307
HEARING SCIENCE II 3.0
A continuation of L 1220 207, with an emphasis on advanced acoustics, psychoacoustics, and auditory perception.
Prerequisite: L 1220 207.

L 1220 410
NEUROPHYSIOLOGICAL DISORDERS OF
COMMUNICATION 3.0
Etiology and pathology of major language and speech disorders resulting from impaired functioning of the nervous system; diagnosis and rehabilitation.
Prerequisites: L 1220 104, 202, 208, 209.

L 1220 411
PSYCHODYNAMICS OF COMMUNICATION
DISORDERS 3.0
Psychological aspects of communication disorders. The nature, diagnosis and treatment of stuttering in children and adults. The nature of counseling and psychotherapy.
Prerequisites: L 1220 104, 202, 209, at least 6 semester hours in psychology.

L 1220 412
DIAGNOSIS OF COMMUNICATION DISORDERS 3.0
Formal and informal assessment procedures for the diagnosis of speech, voice and language disorders. Dynamics of interviewing and the reporting and interpreting of case histories.
Prerequisites: L 1220 209, 410, 411.

L 1220 461
INTRODUCTORY PRACTICUM IN COMMUNICATION
DISORDERS 3.0
Supervised clinical practices with children and adults presenting a variety of communication disorders.
Prerequisites: L 1220 209, 210, 410, 412, 483; concurrent with L 1220 411.

L 1220 462
INTERMEDIATE PRACTICUM IN COMMUNICATION
DISORDERS 3.0
Supervised clinical practice with children and adults presenting a variety of communication disorders.
Prerequisites: L 1220 209, 210, 410, 411, 412, 461, 483.

L 1220 464
PSYCHOLOGY OF ORAL COMMUNICATION 3.0
Problems of interpersonal communication leading to confusion of meaning and misunderstanding. Effects of speech, language, hearing and emotional handicaps. Primary emphasis on disordered communication as a common situation in society. Listening as an active process, and therapy activity as an ongoing communicative event as well as a goal directed process.
Prerequisite: Junior standing.

L 1220 468
CLINICAL PROCEDURES IN AUDIOLOGY 3.0
The measurement of hearing including pure tone tests, screening tests, interpretation of test results, problems of calibration, and medical and educational referral. Demonstrations and supervised practice testing.
Prerequisite: L 1220 207.

L 1220 469
PROBLEMS OF HEARING IMPAIRED 3.0
Current theories and practices of speech reading, auditory training, hearing aid evaluation and educational placement. Psychological aspects of hearing loss. Interviewing and counseling the parents of the hearing impaired child.
Prerequisite: L 1220 468.

L 1220 473
ORGANIZATION AND ADMINISTRATION OF
SPEECH AND HEARING PROGRAMS 3.0
Clinical programs in the public schools and other settings. Testing, scheduling, grouping and record-keeping. The role of the clinician in relation to administrators, teachers, specialists in related areas, parents and paraprofessionals.
Prerequisite: To be taken semester prior to student teaching.

L 1220 483
INTRODUCTION TO LANGUAGE DISORDERS
OF CHILDREN 3.0
An overview of semantic, syntactic, and pragmatic problems that occur in children. Introduction to language sampling and other assessment techniques and procedures for remediation.
Prerequisite: L 1220 202.

Counseling, Human Services and Guidance

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Arlene King

Students enrolled in one or more courses offered by the Department of Counseling, Human Services and Guidance will broaden their knowledge and skills in the areas of communication, careers, leadership abilities, training, value clarification, group and/or team building and interpersonal interaction. These courses, with the general aim of building foundation for a life open to learning and enrichment, are designed to serve student from varied fields and interests. Four of these courses – Group Dynamics, Personal Values, Career Consciousness, and Dynamics of One-to-One Communication – are General Education Requirement possibilities. Among other courses offered by the department are those dealing with counseling techniques used in the alcoholism recovery process.

For those students wishing to further supplement their chosen major and professional development, an 18-credit Human Services Minor has been developed. This minor will help students increase their communication skills to be used in their own areas of specialization, as well as better comprehend theoretical foundations of both group and one-to-one interaction. They will facilitate the acquisition of skills, knowledge and self-confidence necessary to become more effective leaders and helping professionals.

This department also offers a master's degree with specializations involved in guidance, counseling, human services, and school social work.

Human Services Minor

Required Courses

	Semester Hours
2 0826:331 Group Dynamics	3
2 0826:330 Dynamics of One-to-One Communication	3
2 0826:329 Theories and Techniques of Group Process	3
2 0826:434 Facilitating the Interactive Process II	3

Electives

Select 6 semester hours in consultation with and approval of the advisor in Counseling, Human Services and Guidance.

Courses of Instruction

20826 326, 327
EXPERIMENT IN COMMUNITY LIVING 3.0
The goal of the program is to integrate living and learning more closely by creating an atmosphere in which living is the experience that is the main source of learning. A seminar will provide the interpersonal and community skills necessary to enhance community living. Within the context of the seminar, the group will study and evaluate the process by which the community forms, through examination of the available literature and the living experience.

20826 328
PEER COUNSELING 3.0
This course provides the student with actual peer counseling experience. This experience takes the form of one-to-one and group counseling. The student will experience the counseling process both as a counselor and as a client.

20826 329
THEORIES AND TECHNIQUES OF GROUP PROCESSES 3.0
Given that we function in groups of all sizes and of various purposes throughout life, this course provides an understanding of the underlying dynamics of groups and provides the opportunity to relate the theories of group development to the actual group process.

20826 330
DYNAMICS OF ONE-TO-ONE COMMUNICATION 3.0
This course is designed to examine the dynamics of one-to-one communication through readings and experientially. The course will further develop personal goals for optimizing personal communication and assist in establishing strategies for the attainment of these goals. Fulfills General Education Requirement.

20826 331
GROUP DYNAMICS 3.0
This course is a seminar laboratory experience designed to facilitate human relationships. Focus is on individual behavior in groups. Participation in actual group process provides opportunity for development of insight into the effects of one's behavior on others. Fulfills General Education Requirement.

20826 332
ACTION APPROACHES TO PERSONAL AWARENESS 3.0
Designed to increase personal awareness and to assist in developing skills needed to maximize individual growth in human interaction. Through the use of psychodrama and other action oriented techniques, students will have the opportunity to experience and develop strategies for working beyond barriers to effective interaction.

20826 333
LEADERSHIP TRAINING 3.0
This course will demonstrate and utilize the special skills required for effective leadership.

20826 335
THE LEGAL RIGHTS OF WOMEN 3.0
This course will include some historical background for clearer understanding of what the changes in laws mean for women and men. Discussion and study of the effect of Affirmative Action, Civil Rights legislation and Titles VI and IX will be included. Legal rights in the areas of education, employment, finances and credit, property ownership, marriage and divorce, health care, pensions and criminal law will be covered.

20826 430
INTERACTION ANALYSIS 3.0
The purpose of this course is to help participants become more objective in their observations and reporting of interactions which they witness or in which they participate. Various observational tools and methods will be used in the gathering of objective data on three kinds of interaction (interpersonal, small group, and classroom).

20826 432
PERSONAL VALUES 3.0
Designed to help each participant undertake a personal exploration of his own values, what they are and how he got them, and then consider alternatives available. Fulfills General Education.

20826 433
FACILITATING THE INTERACTIVE PROCESS I 3.0
Through observation, lectures, seminars and readings, students will gain understanding of the influence of norms, leadership styles, peers, and other factors on the development of a cohesive group. This experience is preparation for working facilitatively in small groups.

20826 434
FACILITATING THE INTERACTIVE PROCESS II 3.0
This course provides the opportunity for students to gain practical experience in leading groups. Students will be expected to co-lead groups with staff members and be available to assist in all learning endeavors.

20826 450
INTRODUCTION TO ALCOHOLIC COUNSELING 3.0
This course provides the opportunity for students to have practical experience in counseling the recovering alcoholic. Students will gain an understanding of the etiological factors of alcoholism and their implications for counseling. Further, they will experience the specialized techniques used in counseling the recovering alcoholic.

20826 451
COUNSELING THE RECOVERING ALCOHOLIC 3.0
A comprehensive survey of concepts and complexities generic to alcohol related dysfunctions. The course investigates contemporary counseling theories and practices compatible with the pathology of the alcoholic. Emphasis is on helping prospective human service professionals develop behavioral skills germane to appropriate counseling intervention.
Prerequisite: 20826 450, Introduction to Alcoholism Counseling

20826452
PRACTICUM IN ALCOHOLISM COUNSELING 3.0
 This course provides students with a supervised practicum in a human service agency which treats alcoholics. Under supervision of a certified counselor, they will observe and participate in the agency activities. Students will also examine the interactions of other health professionals, community resources and services available to the client in his/her recovery.
Prerequisites: 20826450, 451.

20826453
FIELD WORK IN ALCOHOLISM COUNSELING 3.0
 This course will integrate student learnings in counseling the alcoholic. Students will re-examine major counseling theories in alcoholism and will also plan and implement counseling sessions under supervision.
Prerequisites: 20826450, 451, 452.

20826454
COMMUNITY RESOURCES FOR ALCOHOLISM COUNSELING 3.0
 Study of the methods and approaches used in alcoholism counseling in the community. There will be an exploration of resources that are available. Federal, State and local efforts to help the recovering alcoholic will be examined to provide students with knowledge of available resources in the field.

20826482
CAREER CONSCIOUSNESS 3.0
 This is a course in career skills that integrates schematic human relations training and problem solving techniques with the definition of career goals. The ultimate aim is to facilitate your successful exit from college. Fulfills General Education.

Curriculum and Teaching

SCHOOL OF PROFESSIONAL STUDIES

Chairperson: Catherine Becker

Teaching has been called the immortal profession because of the impact it has on any society. The mission of the department of Curriculum and Teaching is the professional education of public school teachers. Its faculty coordinates the teacher education program and offers the courses within the professional semester. Special care has been taken in the development of the field experience courses which are taught in selected public schools. In order to support the continuing professional growth of teachers, there are programs and courses at the graduate level.

Teacher Education Program

The Teacher Education program provides a sequence of professional courses and field experiences leading to teacher certification upon passing the required National Teacher Examination, while the student majors in a particular field of interest. The graduate is certified to teach in all New Jersey public schools and is legally qualified to teach in other member states of the Interstate Certification Compact.

It is important that a student make the decision to apply for admission to the program (admission to the college is not admission to the Teacher Education program) as soon as possible. If application is made later than the end of the sophomore year, there may be some difficulty in completing the professional sequence in four years. Faculty members in the student's major field and in the department of Curriculum and Teaching should be

approached early and will be happy to discuss courses and experiences that might help in the decision. The criteria for admission are:

1. Three recommendations, at least two from faculty members who know the applicant. One may be a former high school teacher who knows the applicant.
2. Cumulative overall average of at least 2.50 and a cumulative average of 2.50 with no failing grades in the major or in courses in the professional sequence are required for eligibility for student teaching.* (Some departments require a higher major average. Consult your advisor for information.)
3. Speech proficiency prerequisite.
4. Successful completion of prerequisite courses.
5. Successful completion of major course requirements.
6. Evidence of active interest in community affairs and teaching.
7. Approval of a screening committee with representation from the School of Professional Studies and the student's major field.
8. Clearance by the Student Personnel Division.

When a student is notified of admission to the program, an advisor from the professional education sequence will be assigned who will help the student plan the sequence properly. Further information regarding the process of admission to teacher education can be secured from the Coordinator of Teacher Admission and Retention.

*NOTE: Some provisional admissions are made. Consult the department for information.

Professional Sequence for Teacher Certification

(All Teacher Education Candidates)

Required Courses

	Semester	Hour
2001 101	General Psychology I: Growth and Development	3
0821 220	Philosophical Orientation to Education	3
0830 407	Reading I: Theory & Process	3
0830 408	Reading II: The Content Areas	3
2001 200	Educational Psychology	3
	Major Departmental Methods	3
0829 200	Initial Field Experience	3
0829 410	Intermediate Field Experience in Education	3
0829 400	Teacher, School, and Society	3
0829 435	Effective Teaching/Productive Learning	3
0829 401	Senior Field Experience	3
0829 402	Seminar in Professional Education	3
	Departmental Seminar	3
0829 411	Supervised Student Teaching	3

Speech Proficiency

This requirement must be met by passing a test or completing a speech course.

Professional Sequence

There are stages in the completion of the professional sequence that are timed to be completed in four years. They include:

1. Decision to apply (freshman/sophomore)
2. Admission (sophomore) and Initial Field Experience
3. Preparation and Registration for Field Experience and Student Teaching (sophomore/junior)
4. The Professional Semester (senior)

For additional information about these stages and any requirements specific to them contact the chairperson of the Department of Curriculum and Teaching.

Graduate and Special Programs

1. Certification Program (Post-Baccalaureate) - A program leading to a New Jersey teaching certificate for holders of the B.A. degree who do not wish to enter a graduate degree program.
2. Master of Arts in Teaching - Designed for liberal arts graduates who seek certification as teachers. Special options, including one with a focus on Philosophy for Children, are available.
3. The Master of Education degree - Designed for the teacher who wishes to upgrade classroom knowledge and skills.

Courses of Instruction

10829200
INITIAL FIELD EXPERIENCE 1.0
An introductory course in the professional education sequence. Classroom instruction and visits to public schools will provide students the opportunity to examine public education from a professional perspective. (This course is required before full admission to Teacher Education.)

10829400
TEACHER, SCHOOL AND SOCIETY 3.0
An overview of the field of education, includes a consideration of instructional, curricular, legal and professional issues affecting teachers, schools and society as well as implications for students. Normally part of the professional semester for full-time undergraduate students.

10829401
SENIOR FIELD EXPERIENCE 1.0
Part of the professional semester. It is designed to provide for experiences in the community in which one student teaches to better understand the place of the school in the community. Placement in professional semester field center. Course only open to student teachers.

10829402
SEMINAR IN PROFESSIONAL EDUCATION 1.0
Part of the professional semester. It provides an opportunity to discuss problems encountered in teaching with peers and supervisors and to find practical solutions to problems experienced. Placement in professional semester field center. Course only open to student teachers.
Prerequisite: 10829410.

10829410
INTERMEDIATE FIELD EXPERIENCE IN EDUCATION 1.0-3.0
Thirty hours per credit in a public school as assistant to the classroom or subject teacher. Observing, working with individuals and small groups of students, helping with clubs and student activities, teaching "mini-lessons" and becoming familiar with teacher activities. Each student keeps a log of activities. Class meetings on campus during the experience are arranged.
Prerequisite: Admission to teacher preparation program. Obtain course application from the Teacher Admissions office prior to registering for course.

10829411
SUPERVISED STUDENT TEACHING 8.0
Student Teaching in the public schools of New Jersey is required of all students who complete the regular program of graduation requirements. Part of professional semester.

10829413
FIELD WORK IN COMMUNITY AGENCIES 1.0-3.0
Thirty hours of guided experiences in public and private agencies. Objectives, scope and activities of agencies related to education. Preparation of report as specified on application form and log of activities. Class meetings on campus during the experience are arranged.

10829414
IN-SERVICE SUPERVISED TEACHING I 4.0
Replaces supervised student teaching for those employed in teaching situations without standard certification. Joint supervision by the school district and college personnel. Student must have permission of department chairperson and the school district.
Corequisite: 10829402.

10829415
IN-SERVICE SUPERVISED TEACHING II 4.0
Continuation of In-service Supervised Teaching I. The corequisite seminar is replaced by a series of special in-service conferences included in the course.
Prerequisite: 10829414

10829417
MUSIC EDUCATION SUPERVISED STUDY I 4.0
Supervised student teaching in a public school for one-half semester. Experience at elementary and secondary level. Students must consult advisor regarding other professional semester requirements. Eight credits required for certification. Limited to music majors.
Prerequisite: Admission to Teacher Education program. Registration with Student Teaching office.

10829418
MUSIC EDUCATION SUPERVISED STUDY II 4.0
Supervised student teaching in a public school for one-half semester. Experience at elementary and secondary level. Students must consult advisor regarding other professional semester requirements. Eight semester hours required for certification. Limited to Music majors.

10829420
INSTRUCTIONAL INNOVATIONS 3.0
New ways of organizing students, staff, curriculum, time and space, as well as independent study, group dynamics, programmed instruction and student evaluation.

10829421
SEMINAR PROBLEMS OF A CLASSROOM TEACHER 1.0-3.0
Reviewing, evaluating and relating teacher aide and student teaching experiences to initial employment as a teacher. Analyzing strengths and weaknesses and making adaptations in techniques and practices. Should be taken concurrently with or immediately after experiences.
Prerequisite: Departmental permission.

10829423
TEACHING IN URBAN SCHOOLS 3.0
Focuses on factors affecting teaching and learning in urban schools. Topics include the nature and structure of urban schools, recent innovations in urban settings, mores and family patterns in the inner city, and funding opportunities.

10829435
EFFECTIVE TEACHING PRODUCTIVE LEARNING 2.0
For students participating in teaching internship. Includes application of recent research findings for effective teaching in basic teaching skills such as communication, motivation, classroom discipline, evaluation.

Economics

SCHOOL OF BUSINESS ADMINISTRATION

Chairperson: Phillip LeBel

Economics is the study of how market and nonmarket institutions can best allocate relatively scarce resources to promote individual and social welfare. As such it offers well-defined mechanisms for analyzing a wide array of practical and policy-oriented issues. The curriculum is designed to contribute to a broadly-based liberal arts education by expanding a student's perception of the economic decisions that individuals and societies must make under widely varying conditions. Strong emphasis is given to the development of skills in analytical reasoning, quantitative fluency, written and oral communications, as well as creative excellence.

In addition to preparing students for direct career experience in business, government and the professions, the department provides solid preparation for graduate work in Economics as well as in related disciplines. With faculty also involved in the M.B.A. and the Economics Concentration of the M.A. in Social Science, in academic research and community service, the undergraduate B.A. in Economics program benefits from the skills of highly experienced professionals.

Economics Major

Required Courses:

	Semester Hours
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3
2204 203 Economic Statistics	3
2204 207 Intermediate Microeconomic Analysis	3
2204 208 Intermediate Macroeconomic Analysis	3
2204 420 Econometrics	3

Note: A mathematics course is recommended.

Electives

Select 15 semester hours from the appropriate list to be obtained from the department

In addition to completion of the 18 credits of the core curriculum cited above and 15 credits to be selected from an approved list by the department, Economics majors are also required to complete three collateral courses: Y 170I 113 Mathematics for Business I: Linear Algebra, Y 170I 114 Mathematics for Business II: Calculus, and B 0845 320 Business Communications. Students wishing to be admitted to the program should consult the *Guide to the Department of Economics* handbook for details on freshman, transfer, and re-admission standards, course updates and scheduling sequences, and graduation requirements.

Economics Minor

The department maintains a minor program for all majors at the college. It involves the completion of 18 semester hours from the departmental courses, 6 of which should be Principles of Economics: Macro and Principles of Economics: Micro.

Courses of Instruction

C 2204 100

INTRODUCTION TO ECONOMICS

3.0

Major objectives and features of the American economy, including operation of a market economy, structure and function of business, money and banking, government and business relations. For Non-Majors only. May not be taken after C 2204 101 and/or C 2204 102 have been taken.

C 2204 101

PRINCIPLES OF ECONOMICS: MACRO

3.0

A study of the American economy, analytically and institutionally; the achievement of an optimal allocation of resources, price stability, full employment, level of national income and long term growth.

C 2204 102

PRINCIPLES OF ECONOMICS: MICRO

3.0

Organization and operation of the American economy for the production and distribution of goods and services. Pricing of products and factors of production in market situations varying from competition to monopoly. Resource allocation, price determination and behavior of the firm in the determination of quantity of output and the hiring of factors of production.

C 2204 203

ECONOMIC STATISTICS

3.0

Basic elements of economic statistics including frequency distribution sampling, index numbers, statistical inference, regression and correlation techniques.

Prerequisites: C 2204 101 and 102, or instructor's permission.

C 2204 205

COLLECTIVE BARGAINING: THEORY AND PRACTICE

3.0

The development of collective bargaining in the United States and an analysis of the factors that account for present practices. The impact of collective bargaining on contemporary American life. Work in field.

Prerequisites: C 2204 101, 102; or permission of instructor.

C 2204 206

MANAGERIAL ECONOMICS

3.0

The application of economic theory in the decision-making processes of the firm. Utilization of economic analysis in the study of demand, cost pricing and capital investment decisions.

Prerequisites: C 2204 101, 102, and 203.

C 2204 207

INTERMEDIATE MICROECONOMIC ANALYSIS

3.0

The basic determinants of market demand. Input-output relationships determining cost structure. Determination of prices received by resource owners in the productive process. Theory of the firm and pricing in different types of market organization with varying degrees of competitive conditions.

Prerequisites: C 2204 101, 102.

C 2204 208

INTERMEDIATE MACROECONOMIC ANALYSIS

3.0

The factors comprising aggregate demand and how they interact to determine the level of employment, output and the price level; the role of monetary and fiscal policy.

Prerequisites: C 2204 101, 102.

C 2204 209

COLLECTIVE BARGAINING IN THE PUBLIC SECTOR

Course will analyze the sources of growth of collective bargaining in public sector; examine processes utilized by the parties and evaluate impact of collective bargaining.

Prerequisites: C 2204 101, 102

C 2204 213		
ECONOMIC HISTORY OF THE UNITED STATES	3.0	
Evolution of economic institutions with emphasis on development of domestic and foreign markets, technological changes and industrial growth. Analysis and interpretation of cyclical changes		
C 2204 215		
THE ECONOMICS OF SOCIAL PROBLEMS	3.0	
The extent, causes and consequences of poverty, inequality and insecurity. An appraisal of reforms, social insurance, medical care, public housing, rural development. The economics of discrimination and educational opportunity.		
C 2204 222		
ECONOMIC HISTORY OF EUROPE	3.0	
The economic life and development of Europe from the Middle Ages to the present, emphasizing the period from about 1750, economic causes that underlie the dislocations and perplexities of the 19th and 20th centuries.		
C 2204 250		
SELECTED TOPICS IN ECONOMICS	3.0	
An in-depth study of a particular theoretical or applied area of economics.		
C 2204 300		
WORLD RESOURCES AND INDUSTRIES	3.0	
Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population-resource ratios. Examines world trend in production controls and market allocations. Also listed under Environmental, Urban and Geographic Science as N 2206 300.		
C 2204 301		
MONEY AND BANKING	3.0	
An analysis of the economic role of money and credit in our economy, with primary emphasis on federal reserve and treasury operations. <i>Prerequisite: C 2204 101, 102.</i>		
C 2204 303		
ECONOMIC GROWTH AND DEVELOPMENT	3.0	
Problems of hastening the growth of countries with low incomes per person, the requisites for economic development, the obstacles to such development, the strategy and tactics of development and aid for development. <i>Prerequisite: C 2204 207.</i>		
C 2204 304		
PUBLIC POLICIES TOWARD BUSINESS	3.0	
The economic organization of particular American industries. U.S. policy toward completion, monopoly and bigness in business. Government control of public utilities, transportation, radio and television broadcasting. <i>Prerequisites: C 2204 207 (or C 2204 206).</i>		
C 2204 308		
PUBLIC FINANCE	3.0	
The impact of governmental expenditures, taxes and debt operation on resource allocation, income distribution, economic stabilization and economic growth. <i>Prerequisites: C 2204 207 (or C 2204 206).</i>		
C 2204 310		
URBAN AND REGIONAL ECONOMICS	3.0	
The underlying economic forces operating in the urban economy. Development of the urban economic unit; relationship of the urban economy to the regional and national economy; economic activity within the urban area, and the public sector of the urban economy. <i>Prerequisites: C 2204 207 (or C 2204 206).</i>		
C 2204 311		
LABOR ECONOMICS	3.0	
The determinants of wages in the organized and unorganized markets. A historical survey and analysis of the principal institutions and central processes in the labor and manpower areas. An examination of current issues in labor relations. <i>Prerequisite: C 2204 207 (or C 2204 206)</i>		
C 2204 312		
BUSINESS CYCLES AND FORECASTING	3.0	
Fluctuations in economic activity which characterize modern industrial economies. Definitions, descriptions and statistical measurement of business cycles are presented along with theories describing the causes of the cycles. Practical application of forecasting techniques to predict the course of future economic and business activity. <i>Prerequisites: C 2204 203 (or equivalent), and C 2204 208</i>		
C 2204 314		
DEVELOPMENT OF ECONOMIC THOUGHT	3.0	
Broadening and improving the command of modern economic theory by examining the outstanding contributors to economic thought over the past two centuries. <i>Prerequisites: C 2204 101, 102, or instructor's permission</i>		
C 2204 398		
ECONOMIC INDEPENDENT STUDY	3.0	
Independent study for juniors and seniors who have developed a special interest as a result of work in a course or who wish to develop their interest through their own guided reading. A member of the economics department guides the student in this research and reading.		
C 2204 401		
FINANCIAL INSTITUTIONS	3.0	
The structure and operation of financial institutions, their role in the economy and in the money and capital markets. The techniques and objectives of monetary policy and its effect on financial institutions. <i>Prerequisites: C 2204 208 or C 2204 301.</i>		
C 2204 402		
INTERNATIONAL ECONOMICS	3.0	
The how, why and consequences of the movement of goods, services and factors of production in international exchange and an examination of the financial arrangements used to facilitate trade. <i>Prerequisites: C 2204 207 (or C 2204 206) and C 2204 208.</i>		
C 2204 403		
COMPARATIVE ECONOMIC SYSTEMS	3.0	
The economic systems of planned and mixed economies with special emphasis on the Soviet Union, China, the United Kingdom, and Scandinavian countries and the United States. <i>Prerequisite: C 2204 207 (or C 2204 206) or C 2204 208</i>		
C 2204 407		
ECONOMICS OF INDUSTRIAL ORGANIZATION	3.0	
The causes and effects of structure, size and concentration on competition and market prices. <i>Prerequisite: C 2204 207 (or C 2204 206).</i>		
C 2204 417		
MATHEMATICAL ECONOMICS	3.0	
Formulation of economic theory in mathematical language. Application of mathematical methods to economic theory and to the derivation of theoretical conclusions. <i>Prerequisite: C 2204 207 (or C 2204 206) and C 2204 208 (Y 1701 114 Math for Bus. II recommended).</i>		
C 2204 418		
ECONOMICS OF HUMAN RESOURCES	3.0	
Analysis of the role of human resources in the economic process. <i>Prerequisites: C 2204 207 (or C 2204 206).</i>		

C 2204 419

**THE ECONOMICS OF ENERGY & ENVIRONMENTAL
POLICY**

3.0

An examination of the economic, technological and environmental policy dimensions of energy policy choices. Emphasis is given to the linkages among various economic models, elementary principles of energy storage and conservation, and specific energy technologies as they apply to past and current energy policy alternatives.

Prerequisite: C 2204 207 or 206.

C 2204 420

ECONOMETRICS

3.0

An introduction to the techniques of applied economic (Social Science) research. Examination of the tools necessary for applied economic research and methods for dealing with certain problems inherent in economic data. The primary emphasis will be on the application of the techniques to economic data.

Prerequisites: C 2204 101, 102 and C 2204 203 or equivalent.

C 2204 438

ADVANCED SEMINAR IN ECONOMICS

3.0

A seminar designed to enable economics students to develop and discuss important economic ideas with an aim to presenting these in a teaching situation.

Prerequisites: 9 semester hours in economics and instructor's permission.

C 2204 497

ECONOMICS INDEPENDENT STUDY

3.0

Open to students who wish to undertake reading and/or research in specialized areas of economics. Permission of the department chairperson must be secured.

Prerequisite: Permission of the department chairperson.

Educational Foundations

SCHOOL OF PROFESSIONAL STUDIES

Chairperson: Thunder Haas

As a society evolves, so does its educational responsibilities. The department meets these changing needs by developing innovative program through comparative study, and philosophical and sociological theory. In this way, it also services and improves existing programs. The department offers undergraduate and graduate courses for the preparation of public school educators while meeting the specialized demands that are beyond the limits of the public schools. It also offers a Master of Arts in Teaching in Alternate and Community Education which permits qualified college graduates teaching in non-public schools to earn a secondary school teaching certificate while working towards a master's degree. Undergraduate electives are offered as well.

Courses of Instruction

30821 176

**ITALIANS AND ITALIAN-AMERICANS:
COMPARATIVE STUDIES**

3

The course shows the relationship between the Italian and Italian-American experiences. It deals with aspects of religion, politics, language, work, and moral codes. Comparisons are made with the experiences of other ethnic groups in America. The course is taught with an interdisciplinary approach.

30821 220

PHILOSOPHICAL ORIENTATION TO EDUCATION

3

An initiation to professional educational challenges and responsibilities in light of philosophic forces related to American educational goals and practices.

30821 264

SEXISM IN AMERICAN EDUCATION

Designed to analyze sexism on the American schools. Emphasis on role stereotyping in teacher behavior, peer behavior, curriculum and textbook content.

30821 321

**PHILOSOPHICAL AND CULTURAL
FOUNDATIONS OF REASONING**

The course provides an introduction to elements of rational thinking from a philosophical and cultural perspective. It gives attention to such matters as inference, hypothesis and generalization as they would be treated in "modern" society and in a selected number of other cultures. Attention is also given to how such reasoning is useful in professional work.

3 0821 440
SOCIOLOGICAL FOUNDATIONS OF EDUCATION 3.0
 Teaching and learning in context of other social factors. Social and cultural influences on teachers and learners and their transactions. The relationship of culture, role and personality. The school as a changing social system.

3 0821 445
PUERTO RICAN CHILDREN IN MAINLAND SCHOOLS 3.0
 Introduction to the experiences of Puerto Rican children in mainland schools with particular attention to migration. The Puerto Rican family, Puerto Rican life-styles, cultural identity, cultural pluralism, learning needs and evolving programs. Includes visits to schools

3 0821 477
ETHNIC/RACIAL GROUPS AND THE SCHOOLS IN AMERICA 3.0
 An introduction to the peopling of the United States with primary attention to immigration and the role of American schools. Special attention is given to forces, influences, movements and experiences which define the universe of the immigrant child. Ethnicity, assimilation/acculturation; interethnic relations; progressivism, the settlement houses; charity organizations; social reformers; the Americanization movement.

Educational Leadership

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Anne C. Castens

Educational leaders need solid foundations in order to meet the needs of this ever changing world. The department has four specialties programs that provide essential course work and field experience:

Administration and Supervision

Offers only graduate courses leading to the Master of Arts degree in Administration and/or Supervision and to post-Master of Arts studies. (See graduate catalog).

Educational Research and Evaluation

Trains educational research and evaluation specialists needed in various educational, governmental and industrial areas. It also broadens the professional education of students through courses designed to make them competent in educational research and evaluation.

Reading Program

The Reading Program encompasses several major areas at the undergraduate level. These areas include a reading course within the general education requirements, six semester hours in the teaching of reading for students enrolled in teacher education programs, a reading minor, and personal reading improvement such as study skills and speed reading. The course 4 0830 105 Reading: Communicating Through Text fulfills a general education requirement for full-time freshmen and part-time students.

The two courses designed to meet initial certification for teacher education majors are 4 0830 407 Reading I: Theory and Process and 4 0830 408 Reading II: The Content Areas. A Reading minor of 12 semester hours in reading and 12 semester hours in related areas is available. Upon completion of the minor, students are eligible for the Reading Teacher Certificate.

Students can enhance their personal reading improvement and study skills by enrolling in 4 0830 102 College Reading and Study Skills Improvement and/or 4 0830 300 Speed Reading for Academic and Professional Development.

For all students who must meet their basic reading skills requirement, the Reading program offers a three semester hour non-additive credit course entitled 4 0830 053 Basic Reading Skills.

Faculty in the Reading and Study Skills Center will advise students regarding academic or personal Reading programs. Tutoring and independent work are also available.

Reading Minor

The course sequence in Reading will be coordinated with the course sequence in the major program. A minimum of 24 semester hours will be required for the completion of the minor.

Required Courses

	Semester Hours
0830 400 Foundations of Reading Instruction*	3
0830 402 Survey of Reading Methods in Secondary Subjects	3
0830 403 Practicum in Reading and the Improvement of Study Skills	3
0830 404 Diagnosis and Treatment of Reading Problems	3
2001 235 Psychology of Exceptional Children and Youth (prerequisite)	3

*Prerequisite for all Reading courses

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department.

Note: College students may take a personal reading improvement program for optional credit as a service through the Reading and Study Skills Center. Members of the community may obtain diagnostic and treatment services for school age children and for adults. For information call the Center.

Media and Technology in Education Team

The modern library doesn't just contain printed material, it stores informational media. The Media and Technology team prepares students a sound, up-to-date group of courses that lead to New Jersey state certification on the graduate level as an Associate Media Specialist or as an Educational Media Specialist.

Associate Media Certificate

Requirements

Satisfactory completion of a degree program.
New Jersey Teaching Certificate

Courses:

	Semester Hours
0840 355 Media for Inter-cultural Communications (this course also meets the GER requirement for Contemporary Issues)	3
0840 400 Media for Trainers and Educators	3
0840 401 Fundamentals of Cataloging and Classifying Educational Resources	3
0840 402 Reference and Bibliography for School Resource Centers	3
0840 403 Reading Materials for Children and Youth	4
0840 404 Organization and Administration of a School Media Center	3
0840 420 Teaching Materials Workshop	3
0840 445 Audio Technology in Education	3

Electives (Departmental)

Select courses from the appropriate list to be obtained from the department.

Field Experience

Fifty hours of supervised experience in a professional center usually connected with student teaching. This may be waived; see team leader for information.

Courses of Instruction

40830 053 3.0
BASIC READING SKILLS
An intensive laboratory course for students who must fulfill their minimum basic skills requirement in reading. Non-additive credit. Traditional grading procedures in effect.
Prerequisite: New Jersey College Basic Skills Placement Test.

40830 102 3.0
COLLEGE READING AND STUDY SKILLS IMPROVEMENT
Workshop for college students whose reading-study problems interfere with school progress. Supervised practice promotes vocabulary growth, flexible speeds, comprehension and recall, skimming, interpretative and critical techniques. Reviewing for examinations, keeping up daily assignments, taking notes and organizing content are also covered. Students may volunteer or be recommended by a faculty member.

40830 105 3.0
READING: COMMUNICATING THROUGH TEXT
This course, designed for the general student, will foster a critical understanding of the processes involved in efficient and effective reading. Emphasis will be placed on developing students' life-long reading habits in relation to comprehension, aesthetic sensibilities and analytical skills. GER Communications requirement.

40830 300 3.0
SPEED READING FOR ACADEMIC AND PROFESSIONAL DEVELOPMENT
An intensive speed reading course for students who must contend with a myriad of reading materials in their college courses as well as future occupations. Students will practice strategies for dealing efficiently with a variety of printed materials such as journals, technical reports, office memoranda, textbooks and newspapers. Content will include the mechanics of speed reading, reading flexibility, establishing purpose, surveying, skimming, scanning and phrasing. Students will learn how to evaluate their improvement and how to maintain their speed reading skills.

40830 400 3.0
FOUNDATIONS OF READING INSTRUCTION
Good first teaching of reading is of primary importance. The sequential development of reading skills extend into the junior and senior high school. Methods and materials currently in use in elementary reading programs are studied with a view toward increasing the power of both the teacher and the learner. How the reading process begins, and how it is reinforced are topics fundamental to all upper grade teachers faced with the problem of continuing reading skills development in all curriculum areas. Tutoring experience in nearby elementary schools is required.

40830 402 3.0
SURVEY OF READING METHODS IN SECONDARY SUBJECTS
The following are explored: the role of good reading for academic and personal success; the physiological, psychological and sociological factors in reading; resources available; the school's responsibility to help the student build reading skills; reading opportunities in the entire curriculum.

40830 403 3.0
PRACTICUM IN READING AND THE IMPROVEMENT OF STUDY SKILLS
The following areas are explored: recent materials and research; developing practical methods for teaching and learning; the SQ3R approach; taking examinations; reading and problem-solving; memory and concentration; taking and organizing reading notes; and the reading of homework assignments. Students tutor collegians in these areas.

40830 404 3.0
DIAGNOSIS AND TREATMENT OF READING PROBLEMS
Problems of the handicapped; recent materials and research; evaluative and corrective techniques; diagnostic treatment and methodology are covered. An on-going student diagnosis of the school-age child is required.

40830 407 3.0
READING I: THEORY AND PROCESS
Designed for classroom and non-classroom personnel whose major responsibility is instructing students. Major focus will be on developing those skills, understandings and competencies in the nature of the reading process, in specific word recognition and comprehension strategies, and in classroom diagnostic techniques.
Prerequisite: Junior/senior standing.

40830 408 3.0
READING II: THE CONTENT AREAS
Designed to enable content area teachers to understand the development nature of the reading process and employ specific techniques to facilitate and improve reading competencies.
Prerequisite: 40830 407.

40840 355 3.0
MEDIA IN INTER-CULTURAL COMMUNICATION
Offer to satisfy the need for skill in the practical use of media for effective communication in inter-cultural situations. Ethnic, social, and commercial factors affecting accuracy and meaning receive major attention. Training in equipment technology provided. Meets GER requirement Contemporary Issues.

40840 400 3.0
MEDIA FOR TRAINERS AND EDUCATORS
Develops competency with educational media in classroom presentation. Production of simple teacher-made materials; selection and utilization of materials and equipment; and proficiency in basic media technology and evaluation.

40840 401 3.0
FUNDAMENTALS OF CATALOGING AND CLASSIFYING EDUCATIONAL RESOURCES
Covers principles involved in cataloging and classification of print and non-print materials according to established classification schemes. Intensive practice through laboratory experience provided.

40840-402
REFERENCE AND BIBLIOGRAPHY FOR SCHOOL RESOURCE CENTERS 3 0
 An examination and analysis of basic reference materials with emphasis on those most useful in library resource centers. Encyclopedias, dictionaries, geographical and statistical sources as well as bibliographies are included.

40840-403
READING MATERIALS FOR CHILDREN AND YOUTH (SELECTION AND EVALUATION) 3.0
 A study and evaluation of library materials provided by the modern school media center to meet the needs of youth. Extensive critical reading of books for children and young adults is required. Principles of book selection are emphasized, and experience in the use of selection tools is provided. The point of view relates the library collection to the total school program.

English

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Rita Jacobs

There are two important aspects in the study of language. One is learning communication skills through writing, reading, grammar, and studying the roots of the language. The other is understanding the culture through its literature. The English major is designed to help a person acquire this knowledge.

Those interested can major or minor in English, minor in journalism or film or obtain a teaching certificate. There is also a special program designed to give students with strong writing and analytical skills career-oriented opportunities through the Cooperative Education program.

A Bachelor of Arts degree is awarded in the English major.

English Major

Required Courses

	Semester Hours
Genre (select one)	
1501 160 Art of Poetry	3
1501 162 Art of Fiction	3
1501 163 Art of Drama	3
Language and Rhetoric* (1 course)	3
American Literature* (2 courses each from a different period) . . .	6
British Literature* (3 courses each from a different period)	9
Comparative Literature* (1 course)	3

*Check with department for appropriate courses.

English Minor

Required Courses

	Semester Hours
Genre Comparative Literature, Language and Rhetoric, (2 courses) . . .	6
American Literature (2 courses)	6
British Literature (2 courses)	6

Journalism Minor

Required Courses

1507 114 Newswriting	3
1507 216 History of Journalism in America	3
1507 313 Editing	3

Electives (Three of the following)

1507 214 Feature Writing	3
1507 314 Advanced Editing	3
1507 315 Magazine Journalism	3
1507 316 Reporting of Public Affairs	3
1507 416 Interpretive Journalism	3

Special Programs

English Cooperative Education

The English Cooperative Education program places students with strong writing and analytical skills in supervised employment outside the classroom. The co-op term is a semester during which the student advised by a faculty coordinator and the Cooperative Education office completes the terms of a learning contract.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined by the department of Curriculum and Teaching in this catalog. Prerequisites for admission to the Teacher Preparation program in English and current requirements in the discipline for both a first and a second teaching field certificate can be obtained in the English department.

Courses of Instruction

M 1501 100
BASIC COMPOSITION 3.0
 Instruction in basic writing skills and research, frequent writing assignments. In addition to regular class meetings, students may be required to attend tutorial sessions over as long a period of time as necessary to raise students' skills to college standards. Placement based on scores in New Jersey College Basic Skills Placement Test. For those placed, this course is prerequisite to M 1501 105.

M 1501 105
FRESHMAN COMPOSITION 3.0
 Writing skills and research techniques with frequent writing assignments and a research paper. Satisfies the communications requirement in writing. This course and 1501 106 are prerequisites for all other English courses.

M 1501 106
INTRODUCTION TO LITERATURE 3.0
 All forms of literature selected from different periods and cultures. Satisfies the communications requirement in reading. This course and 1501 105 are prerequisites for all other English courses.
Prerequisite: M 1501 or equivalent course.

M 1501 139
SOCIAL PROTEST LITERATURE IN AMERICA 3.0
 Novels, dramas and poetry of protest against social injustices in the United States since World War I.

M 1501 160
ART OF POETRY 3.0
 An introductory course in reading, interpreting, and evaluating poetry. Attention is paid to style, form, and poetic convention.

- M 1501 161
SHORT STORY 3.0
An introduction to the short story as an evolving form. 19th and 20th century stories will be studied with attention to literary and human values.
- M 1501 162
ART OF FICTION 3.0
An introduction to form and techniques in fiction through close reading and discussion of representative texts.
- M 1501 163
ART OF DRAMA 3.0
An introduction to dramatic literature and the ways in which man expresses himself and his community through drama as a blend of word and gesture.
- M 1501 175
THE VIETNAM WAR EXPERIENCE
AND AMERICAN CULTURE 3.0
This course examines the problem of the legacy of the experience of the Vietnam War (sometimes called the "Vietnam Syndrome") as it is reflected in the culture of the United States, and primarily in American literature since the end of the war in 1975. Differing discussions and evaluations of the problems bequeathed by the Vietnam War will be examined in works of political commentary, cultural criticism, history, and foreign affairs, as well as in literature.
- M 1501 225
EARLY AMERICAN LITERATURE 3.0
American literature from the Puritans to 1800, tracing the development of colonial and revolutionary thought and the beginning of America's cultural independence.
- M 1501 226
LITERATURE OF THE AMERICAN RENAISSANCE 3.0
Moby Dick and *The Scarlet Letter* among other major works by masters of the American Romantic period—Emerson, Thoreau, Hawthorne, Melville, Whitman and Poe are examined.
- M 1501 238
AFRO-AMERICAN WRITERS 3.0
Major Afro-American writers from colonial times to the present.
- M 1501 240
ENGLISH LITERATURE I: BEGINNINGS TO 1660 3.0
English literature from its beginnings to 1660 examined through representative works of major and minor authors.
- M 1501 241
ENGLISH LITERATURE II: 1660 TO PRESENT 3.0
English literature from the restoration to the present. May be taken independently of English Literature I.
- M 1501 244
CHAUSSER 3.0
Troilus and Criseyde, *The Canterbury Tales*, and some of the minor poems in Middle English. No previous language training required.
- M 1501 245
MIDDLE ENGLISH LITERATURE 3.0
The literature of England from 1100 to 1400 in its historical and social contexts and in relation to continental literature. Where appropriate, works read in Middle English.
- M 1501 246
RENAISSANCE LITERATURE 3.0
Major poets and prose writers of 16th and early 17th century England such as Sydney, Lyly, Nashe, Greene, Donne and Browne, whose individual contributions in poetry and prose reflect the literary and philosophical preoccupations of the period.
- M 1501 247
THE AUGUSTAN AGE 3.0
Important works of English literature 1600-1745, including poetry, criticism, essays, fiction, and drama, examined within the literary, cultural, social and intellectual contexts of the age.
- M 1501 254
ENGLISH DRAMA-BEGINNINGS TO 1642 3.0
English drama from its medieval origins to the closing of the theaters in 1642; from miracles, mysteries and moralities through the development of Tudor and Stuart Drama. Shakespeare excluded.
- M 1501 294
WOMEN POETS 3.0
Selected poets from Sappho through Emily Dickinson to Sylvia Plath examined in relation to contemporary women poets.
Prerequisite: M 1501 160.
- M 1501 324
AMERICAN POETRY TO 1940 3.0
American poetry from Poe to Langston Hughes with an emphasis on what makes the American voice unique.
- M 1501 325
AMERICAN POETRY: WORLD WAR II TO PRESENT 3.0
American poetry beginning with William Carlos Williams and continuing to the present with an emphasis on new attitudes, techniques and contributions to American culture.
- M 1501 334
AMERICAN DRAMA 3.0
American drama chosen for excellence or representative of a significant era or movement in the theatre from the early 18th century imitative work through melodrama to the serious works of the 20th century. Centered on major American playwrights and their work. The course also examines the backgrounds of our modern stage-including readings in minor/historical works.
- M 1501 336
AMERICAN LITERARY REALISM 3.0
The works of James, Howells, Twain, Crane, Norris, Dreiser and others are examined in light of the developing literary concepts of realism, naturalism and social Darwinism in the changing cultural period between 1860 and 1900.
- M 1501 337
MODERN AMERICAN FICTION 3
American fiction from 1918 to 1945 with attention to the works, criticism and lives of such authors as Hemingway, Faulkner and Fitzgerald.
- M 1501 338
CONTEMPORARY AMERICAN FICTION 3
Developments in American fiction since the 1940's with attention to such authors as Mailer, Roth, Nabokov, and Vonnegut.
- M 1501 343
MILTON 3
An introduction to the mind and art of Milton. Intensive study of one major work, and selections representative of the full range of his achievement.
- M 1501 346
19TH CENTURY ENGLISH ROMANTIC LITERATURE 3
The revolutionary expression of such poets and essayists as Wordsworth, Coleridge, Shelley, Byron, Keats, Hazlitt, Dequincy and Lamb.
- M 1501 347
VICTORIAN PROSE AND POETRY 3
Mid and late 19th century responses to the emergence of modern British society demonstrated in the works of Carlyle, Mill, Ruskin, Huxley, Newman, Arnold, Morris, Tennyson and Browning.

- M 1501 353
SHAKESPEARE: COMEDIES-HISTORIES 3.0
Representative comedies and histories: their sources, devices and characteristics; their staging in the context of Elizabethan society; and Shakespeare's vision of man as actor.
- M 1501 354
SHAKESPEARE: TRAGEDIES-ROMANCES 3.0
Representative tragedies and romances: their sources, devices and characteristics; their staging in the context of Elizabethan society; and Shakespeare's view of man in the tragic mode and in the later romances.
- M 1501 356
ENGLISH NOVEL TO 1900 3.0
Form and theme of the English novel through the 18th and 19th centuries, evaluated by literary, social, moral and cultural criteria.
- M 1501 364
CONTEMPORARY POETRY 3.0
Distinctive movements in poetry since the Imagists, comparing the diverse styles, themes and poetic theories of representative poets of English-speaking countries.
- M 1501 370
ENGLISH INDEPENDENT STUDY I 2.0-3.0
A scholarly interest beyond the scope of a presently offered course pursued, under the direction of a specialist in that field of interest.
Prerequisite: Junior or senior standing with prior permission of the specialist and the English department.
- M 1501 371
ENGLISH INDEPENDENT STUDY II 2.0-3.0
A second scholarly interest beyond the scope of a presently offered course pursued under the direction of a specialist in that field of interest or a study begun in 1501 370 that continues for a second term.
Prerequisite: Successful completion of M 1501 370 and prior permission of the specialist and the English department.
- M 1501 401
OLD ENGLISH LANGUAGE AND LITERATURE 3.0
Selected prose and poetry representative of the heroic, elegiac, religious and popular traditions of pre-conquest England, with recitation and reading in the original old English. No previous language training required.
- M 1501 444
17TH CENTURY ENGLISH POETRY 3.0
The schools of Donne and Johnson and the works of Marvell and Dryden. Milton excluded.
- M 1501 446
IRISH RENAISSANCE PERIOD LITERATURE 3.0
Irish romanticism, naturalism, symbolism and realism in the works of Joyce, Shaw, Yeats and others from the late 1890's to the 1930's.
- M 1501 455
RESTORATION AND 18TH CENTURY DRAMA 3.0
Major innovation of dramatic form and conventions in the period from 1660 to 1715 on the English stage, in the works of Etherege, Wycherley, Congreve, Vanbrugh and Dryden.
- M 1501 456
20TH CENTURY ENGLISH NOVEL 3.0
The literary and cultural context and the stylistic and structural changes in representative British novels of the 20th century.
- M 1501 471
TEACHING ENGLISH (SECONDARY) 3.0
Communicating both the discipline and the human dimensions of English as a subject in the classroom. A course in the professional sequence not credited to the English major requirements.
Prerequisites: Concurrent or completed preliminary field experience 0829-0410 and permission of the English teacher education coordinator.
- M 1501 493
SEMINAR IN AMERICAN LITERATURE 3.0
The works of one major American author in depth or of a group of authors whose works are related by theme, artistic form or cultural period. Enrollment limited.
Prerequisite: Junior or senior English majors or instructor's permission
- M 1501 494
SEMINAR IN ENGLISH LITERATURE 3.0
The works of one major English author in depth or of a group of English authors whose works are related by theme, artistic form, or cultural period. Enrollment limited.
Prerequisite: Junior or senior English majors or instructor's permission
- M 1503 172
WESTERN WORLD LITERATURE 3.0
Literary masterpieces that reflect the major cultural transitions that have shaped western world history, thought and tradition.
- M 1503 173
EASTERN WORLD LITERATURE 3.0
Literature from the Orient and Near East, from the classical to the contemporary period.
- M 1503 176
WORLD LITERATURE:
THE COMING OF AGE THEME
This course combines Western with non-Western works to approximate an approach to a "global perspective" on literature; it is designed to introduce the student to major works of world literature; to foster an international literary sensibility; to present a variety of cultural perspectives in a context which demonstrates how they are interrelated; to present students with assignments that will direct them toward developing skills of literary analysis and interpretation; and to guide students in deepening their awareness of the connections between national literatures and their cultural contexts. This course is an alternative to General Humanities under the current General Education Requirement.
- M 1503 177
WORLD LITERATURE SEMINAR:
VOICES OF TRADITION AND VOICES
OF CHALLENGE 3.0
Organized around the premise that writers have two fundamental ways of responding to the challenge of their culture, conformity or dissent, this course will present literary works in pairs that represent opposing ways of responding to the same subject.
- M 1503 260
MYTH AND LITERATURE 3.0
Myth and the myth-making process: the origins, meanings and major archetypes and motifs of occidental and oriental myths.
- M 1503 266
AFRICAN MYTH AND LITERATURE 3.0
The nature of the sub-Saharan experience and vision through African myths and literary works within the context of culture, criticism and theory.
- M 1503 273
LITERARY MODERNISM 3.0
The intellectual concepts of Futurism, Dada, Surrealism and Expressionism in the early 20th century, which continue to influence literature and art.
- M 1503 274
MODERN DRAMA. IBSEN TO O'NEILL 3.0
Major modern plays and the playwrights whose critical insights and historical perspective led to their unique contributions.
- M 1503 278
SPECULATIVE FICTION FANTASY 3.0
The impossible and improbable in fairy tales, myth, legend, horror, sword and sorcery, the supernatural and high fantasy as a critical mode. Technological science fiction excluded.

- M 1503 372
MAJOR WOMEN PROSE WRITERS 3.0
Significant relationships among the writings of not more than five women such as Mme. Destael, Mary McCarthy or Susan Sontag.
- M 1503 376
MODERN EUROPEAN NOVEL 3.0
The creative expression of such novelists as Gide, Hesse, Kafka, Proust and Wolfe as shaped by events of the period 1910 to 1930, and how these works influenced the future of the novel.
- M 1503 378
SCIENCE FICTION 3.0
Fiction of the future that speculates and extrapolates from the physical and social sciences, selected from both the classics and contemporary writings.
- M 1503 381
COMIC AND SATIRIC TRADITION 3.0
Comic and satiric devices compared and exemplified historically from Aristotle's time to the present.
- M 1503 464
MODERN POETRY TO T. S. ELIOT 3.0
Works of the French symbolists and the Georgian and Imagist poets of Britain, the Continent and America whose theories and principles underlie modern poetics.
- M 1503 492
SEMINAR IN COMPARATIVE LITERATURE 3.0
A culture, era, theme or literary approach studied through international literary masterpieces. Enrollment limited.
Prerequisite: Junior or senior standing English majors or instructor's permission.
- M 1505 384
THE GRAMMARS OF ENGLISH 3.0
Traditional English grammar, new theories of grammar and the application of grammar to teaching or to utilizing its principles in rhetoric and composition.
Prerequisite: M 1505 284.
- M 1507 114
NEWSWRITING 3.0
Writing news articles according to contemporary practices. Interviewing techniques are explored as well as a respect for facts, impartiality, and fairness.
Prerequisite: Instructor's permission.
- M 1507 200
CREATIVE WRITING: FICTION, POETRY, DRAMA 3.0
Writing as a creative process with explorations in poetry, drama, fiction, and autobiography.
- M 1507 204
ADVANCED EXPOSITORY WRITING 3.0
A course designed to help general students improve their expository writing beyond the level of skill developed in the freshman composition course. Particular emphasis will be placed on argument and persuasion.
Prerequisite: M 1501 103.
- M 1507 205
WRITING: NONFICTION PROSE 3.0
Advanced writing skills with stress on developing a personal writing style, adapting writing style to various subjects and audiences, and experimenting with different modes of exposition.
Prerequisites: M 1501 105, instructor's permission.
- M 1507 206
BUSINESS WRITING 3.0
Writing skills essential to the world of work with emphasis on correspondence, analytical reports, and proposals.
- M 1507 207
TECHNICAL WRITING 3.0
Writing skills essential in technology, science and industry with emphasis on mechanism and process description, analysis of data, recommendation proposals and formal reports.
- M 1507 214
FEATURE WRITING 3.0
All aspects of writing personality profiles and of writing critical reviews, columns and/or sports features.
- M 1507 216
HISTORY OF JOURNALISM IN AMERICA 3.0
Evolution of the American press is examined through research and discussion of significant periods, individuals and issues from 1600 to the present.
- M 1507 300
MEET THE PRESS 3.0
Study of issues and problems in modern journalism through lectures and writings of working journalists.
- M 1507 301
COOPERATIVE EDUCATION (ENGLISH) 8.0
An outside the classroom English supervised employment experience related to academic study. Not included in major requirements.
Prerequisites: Permission of English faculty coordinator and the office of cooperative education.
- M 1507 310
WRITING: DRAMA 3.0
Writing and evaluating dramatic dialogue with consideration of the problems of form, characterization, and action. Usually students will complete a one-act play.
Prerequisite: M 1507 198.
- M 1507 311
WRITING: FICTION 3.0
Fundamentals and techniques of writing prose fiction (stories and/or novels), with evaluations in class and extensive individual conferences.
Prerequisite: M 1507 198.
- M 1507 312
WRITING: POETRY 3.0
Writing, reading, and class and professorial evaluations.
Prerequisite: M 1507 198.
- M 1507 313
EDITING 3.0
Copy editing, proofreading and basic editorial skills. Articles are analyzed for accuracy, libel, precise diction and tightening.
Prerequisites: M 1507 114, or 214, instructor's permission.
- M 1507 314
ADVANCED EDITING 3.0
Techniques learned in editing are reinforced. Layout, headlines, and production are explored. Rewriting and fitting articles are worked on extensively.
Prerequisite: M 1507 313.
- M 1507 315
MAGAZINE JOURNALISM 3.0
Researching, writing, and placement of feature stories in mass circulation magazines.
- M 1507 316
REPORTING OF PUBLIC AFFAIRS 3.0
News articles on the activities of government at the local level, including writing reports on the proceedings of civil and criminal court and city county executive councils.
Prerequisites: M 1507 114, 214, 313, or instructor's permission.

- M 1507 407
ADVANCED LITERARY ANALYSIS 3.0
Writing of interpretive essays, applying traditional and contemporary critical approaches to selected works. Responding to them in scholarly writing.
- M 1507 411
ADVANCED WRITING: FICTION 3.0
Writing of prose with intensive class analyses and individual conferences.
Prerequisite: M 1507 215 or instructor's permission.
- M 1507 412
ADVANCED WRITING: POETRY 3.0
Writing of poetry with intensive class analyses and individual conferences.
Prerequisite: M 1507 212 or instructor's permission.
- M 1507 416
INTERPRETIVE JOURNALISM 3.0
Studying and writing columns, editorials, and news articles. Students will compare different styles of interpretive reporting and develop their own skills in this area.
Prerequisite: M 1507 114 or equivalent course.
- M 1507 491
SEMINAR IN WRITING 3.0
Creative writing, expository writing, or theories of the teaching of composition for the advanced student. Enrollment limited.
Prerequisites: Junior or senior English majors and/or permission of instructor.
- M 1511 196
INTRODUCTION TO THE FILM 3.0
The history and aesthetics of film from its beginning to the present, with special attention to the evolution of technique, influential art movements and national cinemas, pivotal directors, and films.
- M 1511 250
MAJOR FILM DIRECTORS 3.0
Focusing on the life and work of influential filmmakers, the course addresses such issues as auteur criticism, the nature of successful collaborations (scriptwriting teams, director/cinematographer), and performance theory.
- M 1511 255
WORLD FILM 3.0
Films from the major film producing countries including the United States, France, Germany, Italy, Sweden, Russia, England, India and Japan. Within that framework, special topics will be defined: a specific period, a particular theme or problem, comparison/contrast of several national cinemas.
- M 1511 260
MAJOR FILM GENRES 3.0
Examples from the major film genres, such as the western, the crime film, the musical, the horror film, and *Film Noir*, with special emphasis on American film and principles of genre criticism.
- M 1511 270
THE AMERICAN FILM 3.0
The evolution of the American film from its beginnings to the present with special attention given to those genres in which American films are distinctive of particular excellence.
- M 1511 290
DRAMA ON FILM 3.0
Major film versions of European and American plays are studied both as adaptations and as independent works of art. The films are compared to the original texts to explore modifications for the screen, the values of the films as productions/interpretations of the plays, and ultimately the nature of theatre as opposed to film.
- M 1511 291
FILM AND SOCIETY 3.0
The relationship between film and society. Either a specific social issue, a particular society or group of societies, or a special historic period will be examined.
- M 1511 350
THREE DIRECTORS 3.0
A comparative study of three major film directors. The focus—using an auteurist derived methodology—will be to investigate a common problem or challenge confronted by each of the three directors.
- M 1511 355
THE SILENT FILM 3.0
The finest examples of silent screen from earliest American and French efforts and from those countries whose films reached their greatest artistic height during the silent era to the coming of the talking film.
- M 1511 356
THE CONTEMPORARY FILM 3.0
Beginning with American *Film Noir* and European films which emerged after World War II, the course traces the major films, directors, critical theories, and other influences which make up the contemporary film and define a specifically modernist sensibility.
- M 1511 360
FILM COMEDY 3.0
Film comedies from all periods in relation to comic theory and its application with particular emphasis on American films of the 20's and 30's.
- M 1511 370
FILM OF HOLLYWOOD STUDIO YEARS 3.0
At its peak, Hollywood was divided into two groups of studios; the big 5 (MGM, RKO, Twentieth Century Fox, Warner Brothers) and the little 3 (Columbia, United Artists, Universal). This course will examine the structure and power of the Hollywood studio system, and in particular the ideological, generic, and stylistic concerns of the individual studios.
- M 1511 490
SPECIAL TOPICS IN FILM STUDIES 3.0
A non-survey course to address specific issues in film studies. The course may be taken more than once if different topics are taken.
- K 4903 196
INTRODUCTION TO THE FILM 3.0
The history and aesthetics of film from its beginning to the present, with special attention to the evolution of technique, influential art movements and national cinemas, pivotal directors, and films.
- K 4903 297
LITERATURE AND SOCIOLOGY 3.0
Through a study of certain works of recent American literature and of sociology, the course examines the impact of sociological ideas on literary culture, and the relationship between the world of fictional works and the "real world" as revealed through sociological examination.
- K 4903 298
LITERATURE AND PSYCHOLOGY 3.0
Major modern depth psychologies—Freudian, Jungian, Adlerian—in their worldwide literary portrayal of human character and action through investigating such issues as the alienated individual, love and marriage, parents and children, and the quest for selfhood.
- K 4903 299
LITERATURE AND ART IN THE WESTERN WORLD 3.0
The relation between art and literature will be explored in representative classical, romantic, and realistic works.

Environmental, Urban and Geographic Studies

SCHOOL OF HUMANITIES AND
SOCIAL SCIENCES

Chairperson: Bertrand P. Boucher

Environmental studies tries to develop a systematic understanding of the environmental factors related to life. Physical factors (water, air, land) and societal, technological and behavioral factors. Their impact on life and their relationship to each other are the bases of courses in the program.

Graduates in this department may continue the work in graduate school or find mid-management positions as environmental planners in both the public and private sector. The program is also a good background for diverse careers in nature centers or even publishing.

The key issues of the contemporary world are urban issues, and the department focuses on these in the urban studies concentration. It prepares students with the technical skills to fully comprehend the consequences of modern urban growth and development. An important feature of this program is the full semester off-campus internship which enables students to work in public or private agencies as planners.

Geography is the study of all natural and cultural elements found on the surface of the earth. In order to understand and study spatial relationships, the department attempts to foster the integration of natural, physical and social sciences. The major achieves broad scholarship and is designed for varied career plans.

Geography Major—Urban Studies Concentration

Required Courses

	Semester Hours
2206 100 Principles of Geography or	3
2206 101 Introduction to Cultural Geography	3
2206 206 Introduction to American Urban Studies	3
2206 309 Research Methods in Geography and Urban Studies or	
2206 310 Quantitative Methods in Geography and Urban Studies	3

Electives (Departmental)

Select 24 semester hours from the appropriate list to be obtained from the department 24

Urban Studies Minor

Required Courses

2206 206 Introduction to American Urban Studies	3
2206 462 People and Cities: Comparative Urban Studies	3
2206 463 Internship in Urban Studies	12
2206 464 Senior Seminar in Urban Studies (Urban Studies Internship)	3

Interdisciplinary Programs

The Environmental, Urban and Geographic Studies department participates in the interdisciplinary Bachelor of Arts degree program trans-cultural studies, which includes major concentrations in Asian studies and Latin American studies. It is possible to design a career program in a number of professional fields. Contact the department for further information.

Courses of Instruction

N 2206 100

PRINCIPLES OF GEOGRAPHY

3.0

The spatial distribution and significance of important geographic phenomena, such as atmospheric pressure and wind systems, climatic types, water bodies, landforms, soil types, natural resources and population distribution mapping techniques and map interpretation.

N 2206 101

INTRODUCTION TO CULTURAL GEOGRAPHY

3.0

Concepts of cultural geography including culture hearths, diffusion processes and environmental perception. Emphasizes socio-cultural diversity of mankind and the spatial aspects of race, language, religion and ethnic groupings as categories of thought patterns and institutions that unite or separate human groups.

N 2206 102

WORLD GEOGRAPHY

3.0

The study of place on a global scale and by major region. Variations in the natural environment, in man's use of the land, in population distributions, and in importance of regions.

N 2206 109

THE HUMAN ENVIRONMENT

3.0

An interdisciplinary course which examines man's relationship to his natural environment, his reliance on it, his view on it, and his changes in it, and future human and environmental projections. Also listed under Psychology as T 2001 109.

N 2206 201

CLIMATOLOGY

3.0

Basic climate elements examined in terms of their influence on habitats and various aspects of human activities. The energy flux between atmosphere and biosphere affords a fundamental understanding of limitations in ecosystems development. Knowledge of climatic influences on health, clothing, human comfort, architecture, commerce and industry encourages the student to investigate new ways of living rationally within a climate environment.

N 2206 203

OUR FINITE EARTH: POPULATION AND
RESOURCES

3.0

Implications of the population explosion and the rising rate of resources consumption. Focuses on the alternate ways various societies can achieve equilibrium between population and economic development, within the framework of limited world resources.

N 2206 204

PRINCIPLES OF LAND USE

3.0

Geographical analysis of rural and urban land use patterns in the United States. Field work stresses mapping techniques and socio-economic aspects of urban land use in the New York-New Jersey metropolitan area.

N 2206 206

INTRODUCTION TO AMERICAN URBAN STUDIES

3.0

An interdisciplinary introduction to the development of American cities, with an emphasis on current patterns of urbanism and urbanization. The growth and evolution of urban structures, emerging urban and suburban cultural styles, and responses to critical urban issues will be explored.

- N 2206 209
URBAN DESIGN AND ARCHITECTURE:
AMERICAN CITYSCAPE 3.0
The evolution of American urban form and architecture from the colonial town to the contemporary metropolitan region; city plans and the emergence of professional planning; architect and the urban environment, cultural values; and changing urban forms and new town design.
- N 2206 234
TRANSPORTATION 3.0
Transportation is the study of spatial interaction of economic factors and societal functioning. Transportation flows are analyzed in the context of technological change, degree of accessibility, different transport cost surfaces, and transportation as it relates to land use planning.
- N 2206 252
HYDROLOGY 3.0
Water: its availability, distribution and usefulness. Hydrologic cycle examined in detail. Interaction with man and his usage. Applications to models and systematic processes. Also listed under Physics and Geoscience as Z 1914 252.
- N 2206 300
WORLD RESOURCES AND INDUSTRIES 3.0
Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population-resource ratios. Examines world trend in production controls and market allocations. Also listed under Economics as C 2204 300.
- N 2206 308
LAND AND LIFE IN LATIN AMERICA 3.0
Human use of local resources and the changes in the spatial arrangement of social and economic systems affected by resource modification.
- N 2206 309
RESEARCH METHODS IN GEOGRAPHY AND URBAN STUDIES 3.0
Primary and secondary source material in geographic and urban research. The use of maps, graphs, diagrams, charts, aerial photographs, slides and other graphic material.
- N 2206 310
QUANTITATIVE METHODS IN GEOGRAPHY AND URBAN STUDIES 3.0
Treatment of measurements and design in geography. Definition of problems, hypotheses formulation and tests of hypotheses by alternative methods of measurement. Geographic applications of computer methods, multi-variate analysis, systems analysis, data bank maintenance and evaluation.
- N 2206 312
HISTORICAL GEOGRAPHY OF THE UNITED STATES 3.0
The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800; the rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1800. Also listed under History as P 2205 312.
- N 2206 313
URBAN GEOGRAPHY 3.0
Spatial aspects of urban demography, post-World War II migration of the minorities to American urban centers and its impact on residential, commercial and industrial land use; the evolving pattern of population distribution in metropolitan areas with its resultant social and political problems. Non-majors only.
- N 2206 317
MANAGING THE URBAN ENVIRONMENT 3.0
An advanced interdisciplinary investigation of the modern city and its suburbs, emphasizing the impact of selected social, political and economic issues.
- N 2206 331
URBANIZATION AND ENVIRONMENT 3.0
Examines interaction between man and the physical urban environment. Studies dynamic and physical processes as related to air, water and noise pollution, and hydrologic and geologic hazards.
- N 2206 352
FLUVIAL GEOGRAPHY 3.0
Detailed study of streams and rivers, emphasizing processes causing variations of size and shape; the morphology of streams; and stream channel processes, quantitative techniques. Also listed under Physics and Geoscience as Z 1914 352.
- N 2206 404
GEO-ECOLOGY 3.0
Spatial relations of the living environment. A systems approach to functional processes, characteristics and relationships of the ecological elements, i.e., soil, water, air, vegetation, etc. Both natural succession and man-induced changes including pollution, within the ecosystem.
- N 2206 405
COMPUTER MAPPING 3.0
Theory and practice using a digital computer to solve problems encountered in geography; Fortran IV, computer solution of regressions, and symap (computer mapping).
- N 2206 412
GEOGRAPHY OF SUB-SAHARA AFRICA 3.0
Topical and regional study of African soils, vegetation, climate, physiography, mineral resources and other aspects of the physical environment in the light of man's habitation of the continent.
- N 2206 417
INTRODUCTION TO REAL ESTATE I
In this course the student is introduced to the principles of real estate from a historical, social, economic, legal, and spatial perspective. The topics explored are: urban-suburban development and the real estate product; the changing nature of real estate through planning, zoning environmental and social considerations; real estate economics and demographics from a national, local and individual parcel level; and a detailed study of the legal instruments and concepts involved in residential, commercial and industrial real estate transactions.
- N 2206 418
INTRODUCTION TO REAL ESTATE II
This course builds on the fundamental principles introduced in N 2206 417 and explores the following new topics: mortgage finance, market demand analysis for residential, retail commercial, office and industrial land use; location and site planning theory and analysis; real estate investment analysis and appraisal techniques; real estate research sources and methods; and public policy impacts on real estate.
Prerequisite: N 2206 417.
- N 2206 421
POPULATION PROBLEMS OF THE WORLD 3.0
Identification, description and analysis of the present-day distributional patterns of the world's people. Demographic trends, man-land ratios. Mobility, migration and socio-economics, and geographic forces affecting world population. Techniques for measurement and analysis.
- N 2206 423
CULTURE AND RESOURCES UTILIZATION 3.0
Evaluation and utilization of resources. Examines changes of characteristics of physical resources in relation to technological and cultural change, population increase, resource depletion and accelerated redundancy of man.

N 2206 424
GEOGRAPHY OF NEW JERSEY 3.0
 Demographic and economic organization of the state. Spatial contrasts in population density; suburban-central city interactions; the influence of New York and Philadelphia on landscape organization. Philosophical concepts of regionalism and investigation of micro-regionalism in New Jersey.

N 2206 426
INDEPENDENT STUDY 3.0
 Preparation of a research paper or project to be presented to members of the staff. Junior and senior majors only.

N 2206 427
PRO-SEMINAR IN GEOGRAPHY 3.0
 Problem-oriented seminar. Specific topics in urban, environmental studies or geography. Content changes according to the needs of the instructor.

N 2206 455
FUNDAMENTALS OF REMOTE SENSING OF ENVIRONMENT 3.0
 Systematic study of multiband spectral reconnaissance of the environment; multifrequency radar systems and their uses. Also listed under geoscience.
Prerequisite: As Z 1914 455. 9 semester hours of geography or geoscience.

N 2206 462
PEOPLE AND CITIES: COMPARATIVE URBAN STUDIES 3.0
 Introduction and cross-cultural investigation of the processes of urbanism and urbanization formation; structure and functioning of cities throughout the world.

N 2206 463
INTERNSHIP IN URBAN STUDIES 3.0-12.0
 A full semester internship in an urban agency. Students will be expected to carry out agency assignments, observe and participate in decision-making processes and engage in middle management activities. Limited to seniors.
Prerequisite: At least 24 semester hours in the major.

N 2206 464
SENIOR SEMINAR IN URBAN STUDIES (URBAN STUDIES INTERNSHIP) 3.0
 A seminar to be taken in conjunction with the urban studies semester internship, and designed as a synthesis of the various approaches in urban studies which the student has acquired in previous urban-related courses. Each semester the seminar focuses upon a specific in-the-field research project, and an analysis and evaluation of the student's internship experience.
Prerequisites: N 2206 206, N 2206 462.

Finance and Quantitative Methods

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Harvey Blumberg

This department offers two concentrations within the business administration major. The concentration in finance provides the student with a professional background in both corporate finance and investments. The courses in this concentration are planned on a sequential basis, and the student is advised to plan ahead and complete early the quantitative and economics courses.

The concentration in quantitative methods provides training in quantitative analytical methods for solving operational and research problems in industry. These methods, together with computer applications, are handled in depth to permit a student to become comfortable using statistics, computer science, operations research, and similar quantitative subjects.

A Bachelor of Science degree in business administration with concentrations in either finance or quantitative methods is offered through this department.

Business Administration

Required Courses

	Semester Hours
0502 201 Fundamentals of Accounting I	3
0502 202 Fundamentals of Accounting II	3
0501 261 Legal Environment of Business I	3
0503 270 Statistics for Business	4
0506 311 Management Process and Organizational Behavior	4
0504 321 Fundamentals of Finance	3
0509 340 Introduction to Marketing	3
0503 372 Management Science	4
0506 439 Business Policy	3
0503 463 Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113 Mathematics for Business I-Linear Algebra	3
1701 114 Mathematics for Business II-Calculus	3
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3

Concentration Programs Within the Major

Finance

Required Courses

	Semester Hours
0504 326 Investment Principles	3
0504 322 Capital Budgeting Management	3

0504 327	International Financial Management	3
2204 301	Money and Banking	3
Select one		
0504 328	Multinational Money Management	3
0504 423	Capital Structure Management	3
0504 425	Working Capital Management	3
0504 427	Security Analysis	3
0504 428	Portfolio Theory and its Application	3

Electives (Departmental)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Quantitative Methods

Required Courses

Select Four

0503 315	Production and Industrial Analysis	3
0503 362	Business Economics	3
0503 371	Management Information Systems	3
0503 374	Computer Management	3
0503 375	Operations Analysis	3
0503 386	Logistics Systems	3
0503 474	Business Forecasting	3
0503 475	Quantitative Decision Making For Business	3

Courses of Instruction

D0503 270
STATISTICS FOR BUSINESS 4.0
The comprehension and the application of modern statistical methods. Topics covered include: Probability Theory, Descriptive Statistics, Interval Estimation, Sampling Theory, Parametric and Non-parametric Tests of Significance, Analysis of Variance, Correlation and Regression Analysis and Time Series Analysis.
Prerequisites: Y1701 113, 114

D0503 274
BUSINESS COMPUTER PROGRAMMING 3.0
Problem-oriented programming languages are studied. Business applications will be programmed in FORTRAN and COBOL. Such programs will be debugged via the computer

D0503 315
PRODUCTION AND INDUSTRIAL ANALYSIS 3.0
This course is designed to expose students to production aspects of industries. It will develop theories and applications in the areas of plant location, capacity planning, facilities design and layout, designing assembly line production systems, facilities maintenance and materials handling, purchasing, inventory control systems, forecasting demand for products, master scheduling and MRP, scheduling and control systems, quality control procedures and statistical quality control
Prerequisites: D 0503 270 majors only, E 0506 310, instructor's permission.

D0503 362
BUSINESS ECONOMICS 3.0
Managerial decision-making, the economic meaning and interpretation of demand and supply, production, competition, cost, price and capital investment. Some mathematical methods, case problems, model-building techniques to develop forecasting and decision-making skills.
Prerequisites: C 2204 101 or 102, E 0506 310.

D0503 372
MANAGEMENT SCIENCE 4.0
Applied mathematical techniques used to solve a wide variety of problems with special attention to issues, management and production control. Topics include linear programming, transportation and assignment algorithms, pert, inventory models, decision theory, markov models, queuing theory and simulation
Prerequisites: E 0506 310; D 0503 270, 272

D0503 374
COMPUTER MANAGEMENT 3.0
Optimum selection of computer hardware, software and operating systems among various alternatives from a cost effectiveness point of view
Prerequisite: D 0503 371

D0503 375
OPERATIONS ANALYSIS 3.0
Mathematical and statistical methods in the analysis of specific business systems and industrial production activities, inventory control, production planning and scheduling, and capital management. Computers are used to solve problems involving complex systems
Prerequisite: D 0503 372.

D0503 386
LOGISTICS SYSTEMS 3.0
The logistics sub-system in the economy and the firm; definitive methods of attacking logistics problems. Relationships among logistics components (transportation, materials handling, warehousing, packaging, inventory holding and location theory), and the inter-face of logistics activities and other functional areas of business
Prerequisites: E 0506 310, F 0509 340.

D0503 463
ADMINISTRATIVE RESEARCH METHODOLOGY AND ANALYSIS 3.0
Scientific investigations into business problems, evaluation of data sources, research methods, statistical techniques, analysis and interpretation of data. Individual and team investigation and reporting on current problems.
Prerequisite: D 0503 270, senior standing.

D0503 474
BUSINESS FORECASTING 3.0
Mathematical and econometric models for short- and long-range business forecasting. Models are evaluated for accuracy and relevance. The computer is used as a tool in developing an automated system.
Prerequisite: D 0503 270.

D0503 475
QUANTITATIVE DECISION MAKING FOR BUSINESS 3.0
Decision-making under conditions of certainty, risk, uncertainty, conflict and competition. The theoretical basis for management decisions and elements of the process. The theory of games and the use of simulation as applied to typical managerial problems.
Prerequisites: E 0506 310, F 0509 340, D 0503 270

D0504 321
FUNDAMENTALS OF FINANCE 3.0
The statement of sources and uses of funds. The evaluation of assets used to acquire and finance corporate ventures. Financial institutions, debt and equity instruments of finance, short- and long-term financing, insuring against risk and uncertainty, optimum capital structure, selection of alternative investments, and dividend and interest policies
Prerequisites: A 0502 202, C 2204 101, 102.

D0504 322
CAPITAL BUDGETING MANAGEMENT 3.0
Analysis of capital expenditures under certainty and uncertainty, lease or purchase decision, mergers and acquisitions, capital reinvestment, extensive use of quantitative tools. Case studies from business situations and current readings.
Prerequisites: C 2204 101, 102, D 0503 270.

D 0504 326
INVESTMENT PRINCIPLES 3.0
 Financial assets and markets, investor's attitude, goals and constraints, risk-return characteristics of securities and market instruments. The industry, market and other factors affecting the risk-return situation. Introduction to the valuation of securities and to portfolio management.
Prerequisites: D 0504 321, C 2204 101, 102.

D 0504 327
INTERNATIONAL FINANCIAL MANAGEMENT 3.0
 A description and analysis of the unique financial opportunities and problems facing the firm involved in international business activities. Techniques include sources and uses of funds in international environment, short-term international cash and securities management, hedging techniques, capital budgeting and capital costs for the international firm.
Prerequisite: D 0504 321.

D 0504 328
MULTINATIONAL MONEY MANAGEMENT 3.0
 Planning of cash management for the firm from the multinational perspective. Cash flows and current assets and liabilities analyzed as they are affected by multinational tax regulations, foreign exchange rates, international market situations and government policies. The impact of currency movements on financial statements, e.g., under FASB Nos. 8, 12, etc. and computer implications and applications will be considered.
Prerequisites: A 0502 202, D 0504 321, D 0504 327.

D 0504 423
CAPITAL STRUCTURE MANAGEMENT 3.0
 Development of a firm's optimum capital structure. Analysis of traditional attitudes on debt-equity, Modigliani and Miller's hypotheses, and other leading authors' attitudes from current literature. Cost of capital to growing companies and stable companies for common stock, debt, preferred stock and retained earnings dividend policies, public offerings.

D 0504 425
WORKING CAPITAL MANAGEMENT 3.0
 Detailed analysis of a corporation's sources and uses of short-term funds, optimum levels of cash, inventory, accounts receivable, and accounts payable, depreciation, use of surplus cash, commercial paper and financial intermediaries.
Prerequisite: D 0504 321.

D 0504 428
PORTFOLIO THEORY AND ITS APPLICATIONS 3.0
 Application of covariance principle in valuation of securities, critical look into management of risk in financial investments, application of this portfolio theory in investment strategies and management of financial institutions, their specific problems, constraints, goals and strategies.
Prerequisite: 6 semester hours in finance.

Fine Arts

SCHOOL OF FINE AND PERFORMING ARTS
Chairperson: Wendy Oxman-Michelli

The Fine Arts Department offers a Bachelor of Arts and a Bachelor of Fine Arts degree.

The B.F.A. degree program is a pre-professional program with specialization in ceramics, drawing, fabrics, filmmaking, graphic design, illustration, jewelry, multi-media, painting, photography, printmaking and sculpture. Courses in each specialization give intensive pre-professional experience preparing students for involvement as artists, graphic designers and illustrators.

The B.A. is a liberal arts degree with four programs, Studio, Art History, Art Education, and Studies in the Visual Arts. The program in Studio is for students interested in liberal arts with a rich studio experience specializing in the same areas as those in the B.F.A. program. The Art history program is for students interested in the historical development of art. The program in Fine Arts Education leads to certification to teach in public schools and is intended for students who want to teach art in schools, museums and community centers. Studies in the Visual Arts is for students seeking an understanding and appreciation of the visual arts.

All students except those interested in the Art History Program, must successfully complete a portfolio review for admission, in addition to meeting the college requirements.

Studio (BA)

A liberal arts program for students who want a studio concentration.

Required Courses

	Semester Hours
1001 101 Design/Foundations of Visual Organization I	2
1001 102 Design/Foundations of Visual Organization II	2
1003 105 Art and Civilization I	2
1003 106 Art and Civilization II	2
1003 451 Contemporary Art	2
1001 107 Drawing I	2
1001 201 Color Studies I	2
1001 220 Life Drawing I	2
Art History Electives	6

Select 6 semester hours from 2 of the following categories:

1. Ancient Art through Medieval
2. Renaissance through Baroque
3. 19th or 20th Century

Electives (Departmental)

Select 13 semester hours from the appropriate list to be obtained from the department.

Studio (BFA)

A preprofessional program for students who seek preparation as artists.

Required Courses

	Semester Hour
1001 101 Design/Foundations of Visual Organization I	2
1001 102 Design/Foundations of Visual Organization II	2
1001 107 Drawing I	2

1001 201	Color Studies I	3
1001 220	Life Drawing I	3
1003 105	Art and Civilization I	3
1003 106	Art and Civilization II	3
1003 451	Contemporary Art	3
Studio Electives		15
Major Studio		28
Art History Electives		6
1002 215	Art Forum	2
1003 462	Senior Seminar	3
1091 489	Exhibition Workshop I	3

Art History (BA)

A liberal arts program for students whose interest is in the study of the history and development of the art of mankind in all its variations from antiquity to the twentieth century.

Required Courses

			Semester Hours
1001 101	Design/Foundations of Visual Organization I		3
1001 102	Design/Foundations of Visual Organization II		3
1003 105	Art and Civilization I		3
1003 106	Art and Civilization II		3
1003 462	Senior Seminar		3
1003 463	Resources and Methods of Research in the Arts		3
One Ancient art history course			3
One Medieval art history course			3
One Renaissance art history course			3
One Baroque art history course			3
19th or 20th century art history course			3
Art history elective			3
Studio, Museum Practice, Externship			6

Required Collateral Courses

1103 123 and 134	Intermediate German I and II	6
1509 206	Philosophies of Art	3
1599	Old Testament	3
1599	New Testament	3
1007 100	Introduction to Theatrical Medium	3
4903 285	Classical Mythology	3
	Theatre History Elective	3

Choose One Course:

2205 103	Foundations of Western Civilization	3
2205 105	Emergence of European Civilization, 1500-1914	3
2205 106	Contemporary Europe, 1914 to the present	3

Free Electives

Studies in the Visual Arts (BA)

A liberal arts program for students seeking an understanding and an appreciation of the visual arts.

Required Courses

	Semester Hours
1001 101 Design/Foundations of Visual Organization I	3
1001 102 Design/Foundations of Visual Organization II	3
1003 105 Art and Civilization I	3
1003 106 Art and Civilization II	3
1003 250 Modern Philosophies of Art	3
Three introductory studio courses	9
Five courses selected from the list below in consultation with faculty advisor:	
Any 1003 course	
1010 299 History of Cinema as Art	3
1090 401 History of Textiles	3
1011 484 History of Photography	3
4921 464 Art and History of the Print	3

4922 341	History of City Form	3
2208 307	The City and the Arts	3
1003 326	The Critical Approach	3
1003 463	Resources and Methods of Research in the Arts	3
1091 330	Museum Practice	3
4922 478	Art in Public Places	3

Fine Arts Education (BA)

A degree program for students who wish to teach art in various settings including museums, community centers, and schools. Certification is for grades kindergarten through 12.

Required Courses

		Semester Hours
1001 101	Design/Foundations of Visual Organization I	3
1001 102	Design/Foundations of Visual Organization II	3
1003 105	Art and Civilization I	3
1003 106	Art and Civilization II	3
1001 201	Color Studies I	3
1001 107	Drawing I or 1001 220 Life Drawing I	3
0831 400	Foundations of Methods and Curriculum in Art Education II: K-12	3
1002 200	Painting I	3
1090 202	Ceramics, Pottery and Sculpture I	3
1090 204	Fibers and Fabrics I	3
1001 209	Theatre Arts I	3
1002 211	Sculpture I	3
1001 211	Graphic Design I: Foundation	3
4921 120	Introduction to Printmaking	3
1090 218	Metalwork and Jewelry I	3
1011 213	Photography I: A Contemporary Art Form	3

Electives (Departmental)

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Courses of Instruction

G0831 200 CREATIVE USE OF MEDIA FOR ART EDUCATION

3.0

The development of creative effects through the use of audio-visual equipment by exploration of ways and means suitable to the visual arts area. Art films, slides, two and three-dimensional materials, light and sound techniques.

G0831 300 FOUNDATIONS OF METHODS AND CURRICULUM IN ART EDUCATION I: K-12

3.0

Philosophical and theoretical basis of fine arts education; the sources of creativity. Concepts of visual literacy and the role of art in individual human experience and in society; organization and presentation of experience, curriculum construction and application of theory to the school, museum, community center, adult education and other teaching situations. For Fine Arts Education majors this course must be taken simultaneously with Teacher, School and Society in the spring of the junior year.

Prerequisites: T 2001 101, 200; majors only.

G0831 305 THE URBAN ART TEACHER

3.0

The role of the art teacher in a public school setting, urban and inner-city. Environment, facilities, equipment, supplies and professional interaction.

<p>G 0831 400 FOUNDATION OF METHODS AND CURRICULUM IN ART EDUCATION II: K-12 3.0 Organization and presentation of art experiences for a wide variety of teaching situations, including K-12, adult classes, museum settings and community centers. Exploration of media, understanding their expressive range, proficiency in their use, and adaptation to various teaching goals. Integration of theory and media. <i>Prerequisite: G 0831 300; majors only.</i></p>	<p>G 1001 201 COLOR STUDIES I 3.0 Color and its interaction through problems in color relatedness; systems and theories; color usage, the development of skills in paint application, use of colored papers and techniques of presentation. Lectures, discussions, reading assignments, museum and gallery visits. <i>Prerequisites: G 1001 101, 102 or instructor's permission.</i></p>
<p>G 0831 460 COMPUTER GRAPHICS & NEW TECHNOLOGIES IN ART AND EDUCATION 3.0 Computer generated art and related technologies with direct personal experiences on the microcomputer. Overview of the uses of computer graphics in business, education, creative, artistic and scientific applications. Special emphasis on creative artistic uses for the teaching of art.</p>	<p>G 1001 209 THEATRE ARTS I 3.0 Visual art aspects of the theatre with emphasis on techniques of group planning; scenery design and preparation, lighting, special effects, sound slides, film, dance, puppets and marionettes.</p>
<p>G 1001 100 INTRODUCTION TO THE VISUAL ARTS 3.0 The ways in which man has expressed himself in the visual arts including painting, ceramics, sculpture, weaving, printmaking, architecture, the theatre, motion pictures and photography, explored through studio work, demonstrations and trips to art sources. The nature and experience of art, their significance to the individual and their role in a culture. For non-majors.</p>	<p>G 1001 210 THEATRE ARTS II 3.0 Continuation of G 1001 209. <i>Prerequisite: G 1001 209.</i></p>
<p>G 1001 101 DESIGN/FOUNDATIONS OF VISUAL ORGANIZATION I 3.0 Foundations of visual organization, structured to develop the visual and verbal vocabulary through studio experience, lectures and discussions. Perception is heightened by emphasis on light, line color, plane, texture, form, shape, and time as basic elements in all art form. Two and three dimensional concepts introduced through a variety of materials and processes. Reading and assignments, museum and gallery visits. Required for all art majors.</p>	<p>G 1001 211 INTRODUCTION TO PAPERMAKING 3.0 Basic methods of making handmade paper as an art form; history and basic principles of handmade paper; contemporary directions and methods of forming. <i>Prerequisite: G 1001 101, or instructor's permission.</i></p>
<p>G 1001 102 DESIGN/FOUNDATIONS OF VISUAL ORGANIZATION II 3.0 Continuation of G 1001 101. Required of all art majors. <i>Prerequisite: G 1001 101.</i></p>	<p>G 1001 212 GRAPHIC DESIGN I: FOUNDATION 3.0 Exploration of the underlying concepts of visual communication for a mass audience: the psychological sources of image design; symbols and their archetypes; introduction to typography; the metaphorical process and its implications for the graphic designer; historical roots of mass media; and theories and developments of 20th century communication design. <i>Prerequisite: G 1001 101.</i></p>
<p>G 1001 103 VISUAL ARTS STUDIO I 3.0 The art forms (painting, sculpture, drawing, crafts) experienced through exploration of nature, found and manufactured materials. Creative experiences in studio work relating art to the student's primary area of knowledge; the part art experience can play in his life. For students with limited experience.</p>	<p>G 1001 215 DRAWING II 3.0 Continuation of G 1001 107. <i>Prerequisite: G 1001 107.</i></p>
<p>G 1001 104 VISUAL ARTS STUDIO II 3.0 Continuation of G 1001 103. For students with limited experience. <i>Prerequisite: G 1001 103, instructor's permission.</i></p>	<p>G 1001 220 LIFE DRAWING I 3.0 The structure and proportions of the human form. Expressive drawing is emphasized.</p>
<p>G 1001 107 DRAWING I 3.0 Basic elements of line, point, shape, figure ground, and space relationships.</p>	<p>G 1001 225 MULTI-MEDIA II 3.0 Continuation of G 1001 125. <i>Prerequisite: G 1001 125.</i></p>
<p>G 1001 125 MULTI-MEDIA I 3.0 Group work to create a multi-media environment and to perform a multi-media mix creation of the theatrical, architectural, sculptural and technological props and the program for the mix; the psychology of a total art experience.</p>	<p>G 1001 275 DRAWING III 3.0 Continuation of G 1001 215. <i>Prerequisite: G 1001 215.</i></p>
	<p>G 1001 280 LIFE DRAWING II 3.0 Continuation of G 1001 220. <i>Prerequisite: G 1001 220.</i></p>
	<p>G 1001 301 COLOR STUDIES II 3.0 Continuation of G 1001 201. <i>Prerequisite: G 1001 201.</i></p>
	<p>G 1001 306 THEATRE ARTS III 3.0 Continuation of G 1001 210. <i>Prerequisite: G 1001 210, instructor's permission.</i></p>

G 1001 307 THEATRE ARTS IV Continuation of G 1001 306. <i>Prerequisite: G 1001 306, instructor's permission</i>	3.0	G 1001 402 INDEPENDENT STUDY IN FOUNDATIONS OF VISUAL ORGANIZATION III Topics for investigation selected with the approval of the instructor <i>Prerequisite: G 1001 401.</i>	3.0
G 1001 311 INTERMEDIATE PAPERMAKING I Continuation of G 1001 211. Two dimensional and three dimensional forms. <i>Prerequisite: G 1001 211</i>	3.0	G 1001 403 INDEPENDENT STUDY IN FOUNDATIONS OF VISUAL ORGANIZATIONS IV Topics for investigation selected with the approval of the instructor <i>Prerequisite: G 1001 402.</i>	3.0
G 1001 313 GRAPHIC DESIGN II: FOUNDATION Advanced studies of the fundamental strategies of graphic communication with an increasing emphasis on formal theories of composition and the skills of multi-image and word/image presentation. The symbolic uses of color, the metaphorical implications of relative scale, the organization of typographic forms for power and visual impact. <i>Prerequisite: G 1001 212 or instructor's permission.</i>	3.0	G 1001 404 INDEPENDENT STUDY IN DRAWING I Topics for investigation selected with the approval of the instructor	3.0
G 1001 314 INTERMEDIATE PAPERMAKING II Continuation of G 1001 311. Two dimensional and three dimensional forms. <i>Prerequisite: G 1001 311.</i>	3.0	G 1001 405 INDEPENDENT STUDY IN DRAWING II Topics for investigation selected with the approval of the instructor <i>Prerequisite: G 1001 404</i>	3.0
G 1001 315 DRAWING IV Continuation of G 1001 275. <i>Prerequisite: G 1001 275.</i>	3.0	G 1001 406 INDEPENDENT STUDY IN DRAWING III Topics for investigation selected with approval of the instructor <i>Prerequisite: G 1001 405.</i>	3.0
G 1001 339 VISUAL ARTS STUDIO III Continuation of G 1001 104. For students with limited experience. <i>Prerequisite: G 1001 104, instructor's permission.</i>	3.0	G 1001 407 INDEPENDENT STUDY IN DRAWING IV Topics for investigation selected with the approval of the instructor. <i>Prerequisite: G 1001 406.</i>	3.0
G 1001 340 DRAWING V Continuation of G 1001 315. <i>Prerequisite: G 1001 315.</i>	3.0	G 1001 411 ADVANCED PAPERMAKING I Continuation of G 1001 314. Development of personal expression and direction in the body of work produced. <i>Prerequisite: G 1001 314.</i>	3.0
G 1001 350 INDEPENDENT STUDY Topics for investigation selected with approval of the instructor. May be repeated for credit.	1.0-6.0	G 1001 415 GRAPHIC DESIGN IV: LAYOUT DESIGN The process of layout design: how the designer can shape and process the communication through the graphic organization of words and images. The synthesis of photographic, illustrative and typographic elements for the purpose of the presentation and selling of ideas and products. Survey of the evolution of 20th century concepts of graphic design including a review of current design trends. <i>Prerequisites: G 1001 212, 313, 375 or instructor's permission</i>	3.0
G 1001 375 GRAPHIC DESIGN III: DESIGNING WITH LETTER FORMS The creative and technical means by which the graphic designer solves actual communication problems through the process of letterform design. Techniques of thumb-nail, roughs and comprehensives for art director and client presentation. How to select appropriate type faces from specimen books for body copy and headlines. Survey of the evolution of 20th century letterform design including a review of current design trends. <i>Prerequisites: G 1001 212, and 313 or instructor's permission.</i>	3.0	G 1001 420 INDEPENDENT STUDY-THEATRE ARTS Topics for investigation selected with the approval of the instructor.	3.0
G 1001 400 INDEPENDENT STUDY IN FOUNDATIONS OF VISUAL ORGANIZATION I Topics for investigation selected with the approval of the instructor.	3.0	G 1001 425 MAJOR STUDIO PROJECT I (B.F.A.) With faculty advisement, each senior student will design and develop a studio project in a chosen area of specialization. The body of the work will be completed in Major Studio Project II <i>Prerequisite: Permission of B.F.A. coordinator.</i>	3.0
G 1001 401 INDEPENDENT STUDY IN FOUNDATIONS OF VISUAL ORGANIZATION II Topics for investigation selected with the approval of the instructor <i>Prerequisite: G 1001 400.</i>	3.0	G 1001 440 ADVANCED PAPERMAKING II Continuation of G 1001 411. Development of personal expression and direction in the body of work produced. <i>Prerequisite: G 1001 411.</i>	3.0
		G 1001 441 LIFE DRAWING III Continuation of G 1001 321 <i>Prerequisite: G 1001 321</i>	3.0

G 1001 442 LIFE DRAWING IV Continuation of G 1001 441. <i>Prerequisite: G 1001 441.</i>	3.0	G 1002 200 PAINTING I Exploration of painting media and modes of expression. Reading, gallery and museum visits.	3.0
G 1001 443 INDEPENDENT STUDY IN LIFE DRAWING I Topics for investigation selected with approval of the instructor.	3.0	G 1002 201 PAINTING II Continuation of G 1002 200. <i>Prerequisite: G 1002 200.</i>	3.0
G 1001 444 INDEPENDENT STUDY IN LIFE DRAWING II Topics for investigation selected with approval of the instructor. <i>Prerequisite: G 1001 443.</i>	3.0	G 1002 210 VISUAL ARTS WORKSHOP Selected studio topics which represent current concerns within the contemporary world of the visual arts. May be repeated for credit.	1.0-12.0
G 1001 450 MAJOR STUDIO PROJECT II (B.F.A.) With faculty advisement, each senior student will complete and present a body of work in an area of extended specialization, the same area of specialization already established and explored in Major Studio I. <i>Prerequisite: G 1001 425; permission of B.F.A. coordinator.</i>	10.0	G 1002 211 SCULPTURE I Sculptural concepts using materials like plaster, metal, plastics, stone and wood. Gallery and museum visits.	3.0
G 1001 460 GRAPHIC DESIGN V: PRODUCTION FOR THE DESIGNER How a graphic designer prepares for final client presentation and print media reproduction. Techniques in photo and hand separation mechanicals, comprehensives, type-specification, translation of typewritten manuscripts into body copy designs. Introduction to mechanical materials and tools of the production artist. Scaling of photographs, line options, multi-color registration, screen selection, and how to use this knowledge to guide the design process with respect to paper size, color and photo reproductive budget restrictions. <i>Prerequisites: G 1001 212, 313, 375, 415 or instructor's permission.</i>	3.0	G 1002 212 SCULPTURE II Continuation of G 1002 211. <i>Prerequisite: G 1002 211.</i>	3.0
G 1001 465 EXTERNSHIP AND FIELD EXPERIENCE I Involvement beyond the campus in a museum, art institution, or industry, participation in inner-city art programs, or study with an independent artist or artist-craftsman. Approval by a supervising faculty member required. Total semester hours from externship and field experience courses combined (G 1001 465, 466, 467, 468) shall not exceed 8 hours. <i>Prerequisite: Instructor's permission.</i>	2.0-8.0	G 1002 215 ART FORUM Talks and presentations by artists, critics, museum directors, art historians. May be repeated for credit.	2.0
G 1001 466 EXTERNSHIP AND FIELD EXPERIENCE II Continuation of G 1001 465. <i>Prerequisite: G 1001 465; instructor's permission.</i>	2.0-8.0	G 1002 247 SCULPTURE: FABRICATION I Sculpture formed by constructive methods. Form and space relationships; a professional sequence of drawings, model building, testing of materials, joining methods, full-scale execution. Museum visits and reading assignments.	3.0
G 1001 467 EXTERNSHIP AND FIELD EXPERIENCE III Continuation of G 1001 466. <i>Prerequisite: G 1001 466; instructor's permission.</i>	2.0-8.0	G 1002 249 SCULPTURE: CLAY I The use of clay to create sculpture forms; emphasis on developing skills and strengthening understanding of sculpture as an art form. Finished works may be composed of fired clay or unfired clay or clay in combination with other materials. <i>Prerequisite: G 1090 202.</i>	3.0
G 1001 468 EXTERNSHIP AND FIELD EXPERIENCE IV Continuation of G 1001 467. <i>Prerequisite: G 1001 467; instructor's permission.</i>	2.0-8.0	G 1002 250 FIGURATIVE PAINTING Rendering the human figure and expressing creative insights into figurative painting. <i>Prerequisites: G 1002 200, instructor's permission.</i>	3.0
G 1001 475 DRAWING VI Continuation of G 1001 340. <i>Prerequisite: G 1001 340.</i>	3.0	G 1002 257 SCULPTURE: FABRICATION II Continuation of G 1002 247. <i>Prerequisite: G 1002 247.</i>	3.0
G 1001 486 VISUAL ARTS STUDIO IV Continuation of G 1001 339. For students with limited experience. <i>Prerequisite: G 1001 339.</i>	3.0	G 1002 259 SCULPTURE: CLAY II Continuation of G 1002 249. <i>Prerequisite: G 1002 249.</i>	3.0
		G 1002 260 METALS I Production of sculpture through the casting or welding processes. With the permission of the instructor, a student may elect to concentrate in one of these areas throughout the semester, explore both approaches to metal sculpture or combine both processes in finished pieces. Slide lectures, critiques and visits to the galleries and museums in New York. <i>Prerequisite: G 1002 246 and 247, or permission of instructor.</i>	3.0

G 1002 270 METALS II Continuation of G 1002 260. <i>Prerequisite: G 1002 260.</i>	3.0	G 1002 421 INDEPENDENT STUDY: SCULPTURE I Topics for investigation selected with approval of instructor	3.0
G 1002 308 SCULPTURE III Continuation of G 1002 212. <i>Prerequisite: G 1002 212.</i>	3.0	G 1002 422 INDEPENDENT STUDY: SCULPTURE II Topics for investigation selected with approval of instructor <i>Prerequisite: G 1002 421.</i>	3.0
G 1002 309 SCULPTURE IV Continuation of G 1002 308. <i>Prerequisite: G 1002 308.</i>	3.0	G 1002 423 INDEPENDENT STUDY: SCULPTURE III Topics for investigation selected with approval of instructor <i>Prerequisite: G 1002 422.</i>	3.0
G 1002 316 PAINTING III Continuation of G 1002 201. <i>Prerequisite: G 1002 201.</i>	3.0	G 1002 424 INDEPENDENT STUDY: SCULPTURE IV Topics for investigation selected with approval of instructor. <i>Prerequisite: G 1002 423.</i>	3.0
G 1002 317 PAINTING IV Continuation of G 1002 316 <i>Prerequisite: G 1002 316.</i>	3.0	G 1002 450 METALS IV Continuation of G 1002 350. <i>Prerequisite: G 1002 350.</i>	3.0
G 1002 347 SCULPTURE: FABRICATION III Continuation of G 1002 257. <i>Prerequisite: G 1002 257.</i>	3.0	G 1002 489 SCULPTURE: CLAY IV Continuation of 1002 349. <i>Prerequisite: G 1002 349.</i>	3.0
G 1002 349 SCULPTURE: CLAY III Continuation of G 1002 259. <i>Prerequisite: G 1002 259.</i>	3.0	G 1002 496 SCULPTURE: METAL CASTING IV Continuation of 1002 346. <i>Prerequisite: G 1002 346.</i>	3.0
G 1002 350 METALS III Continuation of G 1002 270. <i>Prerequisite: G 1002 270.</i>	3.0	G 1002 497 SCULPTURE: FABRICATION IV Continuation of 1002 347. <i>Prerequisite: G 1002 347.</i>	3.0
G 1002 408 INDEPENDENT STUDY: PAINTING I Topics for investigation selected with approval of instructor.	3.0	G 1003 105 ART AND CIVILIZATION I The history of art from its beginning to the present. Museum visits and extensive reading. Required for fine arts majors.	3.0
G 1002 409 INDEPENDENT STUDY: PAINTING II Topic for investigation selected with approval of instructor. <i>Prerequisite: G 1002 408.</i>	3.0	G 1003 106 ART AND CIVILIZATION II Continuation of 1003 105. Required for fine arts majors. <i>Prerequisite: G 1003 105.</i>	3.0
G 1002 410 INDEPENDENT STUDY: PAINTING III Topics for investigation selected with approval of instructor. <i>Prerequisite: G 1002 409.</i>	3.0	G 1003 108 WOMEN IN ART Introduce and interpret the role and status of women in art from the Old Stone Age through the present. After a brief historical introduction to the special roles of women in the past in society, the role of women artists in Western culture will be explored from the Renaissance to the present, as well as depictions of women in different iconographic categories. Finally, women as artists today will be discussed in terms of their current social position.	3.0
G 1002 411 INDEPENDENT STUDY: PAINTING IV Topics for investigation selected with approval of instructor. <i>Prerequisite: G 1002 410.</i>	3.0	G 1003 215 ANCIENT ART The origins of man's art and civilizations of the ancient world: Paleolithic man and the Sumerian, Hittite, Assyrian, Phoenician and Egyptian civilizations.	3.0
G 1002 415 PAINTING V Continuation of G 1002 317. <i>Prerequisite: G 1002 317.</i>	3.0		
G 1002 416 PAINTING VI Continuation of G 1002 415 <i>Prerequisite: G 1002 415.</i>	3.0		

- G 1003 216
RENAISSANCE ART IN ITALY: THE FIFTEENTH CENTURY 3.0
 The formation of Renaissance painting, sculpture and architecture during the Quattrocento; Masaccio, Mantegna, Donatello, Brunelleschi, and Alberti emphasized.
- G 1003 217
SELECTED MASTERPIECES WORLD ART 3.0
 An introduction to key works of art representing prehistoric cultures, the ancient world, the East, the Renaissance, and the modern period. Museum and gallery trips, reading and discussion. For non-Art majors.
- G 1003 220
ART IN NON-WESTERN SOCIETIES 3.0
 A consideration of the role of art in traditional non-western societies, including an examination of the integration of art into the society as a whole, the religions, economics, environment and social order; the role art plays in social change and how it is affected by social change.
- G 1003 250
MODERN PHILOSOPHIES OF ART 3.0
 The work of major writers about art in the nineteenth and twentieth centuries; the nature of the creative experience, the function of art in the life of the individual and of society, the nature of the creative process, the rise of new materials and institutions, the development of sentiments and attitudes affecting thinking in the field.
- G 1003 275
AFRO-AMERICAN ART 3.0
 Afro-American art in the United States from colonial times to the present.
- G 1003 322
EARLY CHRISTIAN-BYZANTINE ART 3.0
 The emergence and development of early Christian art from its classical and late classical antecedents and its development up to Byzantine art.
- G 1003 323
MEDIEVAL ART 3.0
 Painting, sculpture and architecture in the Romanesque and Gothic periods.
- G 1003 324
NORTHERN RENAISSANCE PAINTING 3.0
 Fifteenth and sixteenth century painting in northern Europe with particular attention to Flanders and Holland; emphasis on Jan Van Eyck, Van der Weyden, Bosch, Peter Bruegel, and Matthias Gruenewald.
- G 1003 325
SEVENTEENTH AND EIGHTEENTH CENTURY ART 3.0
 Painting, sculpture, and architecture in western Europe from 1600 to 1800. Baroque and Rococo styles with emphasis on El Greco, Bernini, Rubens, Rembrandt, Poussin and Watteau.
- G 1003 327
HISTORY OF ORIENTAL ART 3.0
 The factors that shaped oriental society. The art of China, Korea, Japan, India, southeast Asia and the neighboring Islamic world.
- G 1003 328
SURVEY OF GREEK ART 3.0
 Greek art including painting, sculpture and architecture from the Bronze Age through the Hellenistic period.
- G 1003 329
AMERICAN ART 3.0
 Art in the United States from the colonial period through the nineteenth century; the development of an American style in the light of its relationship to and dependence upon European art.
- G 1003 332
ANCIENT ART OF EUROPE 3.0
 The non-classical traditions in prehistoric and early medieval Europe; the continuity of native, anticlassical artistic trends from the cave art of paleolithic Europe to the migration arts of the early Middle Ages; the arts of the builders of Stonehenge, the Scythians, Huns, Celts, Goths and Vikings.
Prerequisite: Instructor's permission.
- G 1003 450
MODERN ARCHITECTURE 3.0
 Major contributions to the development of modern architecture in the nineteenth and twentieth centuries; the development of styles, structural innovations and theories of design.
- G 1003 451
CONTEMPORARY ART 3.0
 The work of major artists of the twentieth century with particular reference to the dominant ideas of the period; readings, museum trips, discussion of contemporary writing and criticism.
- G 1003 452
RENAISSANCE ART IN ITALY: THE SIXTEENTH CENTURY 3.0
 The great masters of the Cinquecento: Leonardo, Michelangelo, Raphael, Giorgione and Titian; the emergence of mannerist art in Rome, Venice, Florence and Bologna.
- G 1003 454
FIELD TRIPS IN ART HISTORY 3.0
 An intensive three-week tour of major centers of art in conjunction with specific courses in art history, e.g., field trips in the United States or abroad. Offered only during winter session.
- G 1003 455
SELECTED PROBLEMS IN ART HISTORY 3.0
 A seminar in topics like the works of an individual artist or a particular theme in art history (e.g. the human figure) or a particular technique (e.g. sculpture). Lectures, reports, museum and studio visits, discussion. May be repeated for credit.
- G 1003 457
PRE-COLUMBIAN, OCEANIC AND AFRICAN ART 3.0
 The major styles of Oceania, Africa, South and Central America before Columbus.
- G 1003 458
TRADITIONAL ARTS OF SUB-SAHARAN AFRICA 3.0
 The painting, sculpture and minor arts of the cultures of Africa; prehistoric remains and art traditions of the more recent past in the context of stylistic groupings, relation to ceremony and to daily life; symbolism and relations to the arts of other cultures.
- G 1003 459
ART OF THE NINETEENTH CENTURY 3.0
 The major movements of the nineteenth century: classicism, romanticism and realism; the salon at midcentury, impressionism, post-impressionism.
- G 1003 462
SENIOR SEMINAR 3.0
 Seminar in selected artistic problems of historic, social and philosophical nature.
Prerequisite: Instructor's permission.
- G 1003 463
RESOURCES AND METHODS OF RESEARCH IN THE ARTS 3.0
 Bibliographic and other scholarly resources; the special problems of scholarship and research.

G 1003 469				G 1010 493			
ART OF THE TWENTIETH CENTURY	3.0			INDEPENDENT STUDY IN FILM III	3.0		
From Picasso to today; scientific and social forces transforming the artist's vision, including the theories of Freud and Bergson.				Topics selected with the approval of the instructor			
				<i>Prerequisite: G 1010 492.</i>			
G 1003 483				G 1010 494			
INDEPENDENT STUDY IN ART HISTORY	2.0-8.0			INDEPENDENT STUDY IN FILM IV	3.0		
May be repeated for credit.				Topics selected with the approval of the instructor			
<i>Prerequisite: Instructor's permission.</i>				<i>Prerequisite: G 1010 493.</i>			
G 1003 485				G 1010 499			
ANCIENT ART IN ITALY: ETRUSCAN AND				FILMMAKING IV	3.0		
ROMAN ART	3.0			Continuation of G 1010 453.			
The arts of the Etruscans and Romans in their historical, cultural and religious settings.				<i>Prerequisite: G 1010 453.</i>			
G 1010 218				G 1011 213			
FILMMAKING I	3.0			PHOTOGRAPHY I: A CONTEMPORARY ART FORM	3.0		
Basic elements of Super 8 film production: script, camera, lighting, sound, editing, animation.				The essentials of the photographic process including developing, enlarging, and exhibiting. Trips, films, discussion, lectures, criticism and demonstration.			
G 1010 219				G 1011 214			
FILMMAKING II	3.0			INTERMEDIATE PHOTOGRAPHY: A CONTEMPORARY ART FORM	3.0		
Basic elements of 16 mm film production. Script, camera, lighting, sound editing, animation.				Continuation of G 1011 213.			
<i>Prerequisite: G 1010 218, instructor's permission.</i>				<i>Prerequisite: G 1011 213.</i>			
G 1010 221				G 1011 250			
VIDEO-TELEVISION AS AN ART FORM I	3.0			PHOTOTRANSparency MATERIALS	4.0		
Artistic statements are produced on tape and film.				Control and manipulation of color and monochrome transparency materials. Emphasis on visual awareness, personal direction, and technical skills.			
<i>Prerequisite: Instructor's permission.</i>				<i>Prerequisite: G 1011 213 or instructor's permission.</i>			
G 1010 222				G 1011 310			
VIDEO-TELEVISION AS AN ART FORM II	3.0			ADVANCED PHOTOGRAPHY: A CONTEMPORARY ART FORM	4.0		
Continuation of G 1010 221.				Workshop, discussion, lecture, demonstrations, criticism; photography as an intensive learning experience; light sensitive materials, controls, photographic approach, selection, system and view camera.			
<i>Prerequisite: G 1010 221, instructor's permission.</i>				<i>Prerequisite: G 1011 214.</i>			
G 1010 299				G 1011 311			
HISTORY OF CINEMA AS ART	3.0			SPECIAL PROCESS IN PHOTOGRAPHY	4.0		
The development of the motion picture as an art form from its earliest stage to the present; the technical, social, economic, cultural and esthetic factors. May be repeated once for credit.				Non-traditional light sensitive materials for use in the photographic image making process; extension of traditional boundaries of photography through new tools permitting greater image manipulation; gum bichromate, cyanotype, platinum, photo etching, and others.			
G 1010 336				<i>Prerequisite: G 1011 214.</i>			
VIDEO-TELEVISION AS AN ART FORM III	3.0			G 1011 410			
Continuation of G 1010 222.				THE COLOR PHOTOGRAPHIC PRINT:			
<i>Prerequisite: G 1010 222, instructor's permission.</i>				A CONTEMPORARY ESTHETIC APPROACH	4.0		
G 1010 453				Photographic and printing techniques for color; history of color photographic print. Museum and gallery visits.			
FILMMAKING III	3.0			<i>Prerequisite: G 1011 310 or instructor's permission.</i>			
Continuation of 1010219.				G 1011 425			
<i>Prerequisite: G 1010219.</i>				INDEPENDENT STUDY IN PHOTOGRAPHY			
G 1010 474				A CONTEMPORARY ART FORM I	3.0		
VIDEO-TELEVISION AS AN ART FORM IV	3.0			Topics for investigation selected with the approval of the instructor.			
Continuation of G 1010 336.				G 1011 426			
<i>Prerequisite: G 1010 336, instructor's permission.</i>				INDEPENDENT STUDY IN PHOTOGRAPHY:			
G 1010 491				A CONTEMPORARY ART FORM II	3.0		
INDEPENDENT STUDY IN FILM I	3.0			Topics for investigation are selected with the approval of the instructor.			
Topics selected with the approval of the instructor.				<i>Prerequisite: G 1011 425.</i>			
G 1010 492							
INDEPENDENT STUDY IN FILM II	3.0						
Topics selected with the approval of the instructor							
<i>Prerequisite: G 1010 491.</i>							

G 1011 427				G 1090 211			
INDEPENDENT STUDY IN PHOTOGRAPHY:				TEXTILE DESIGN II		3.0	
A CONTEMPORARY ART FORM III	3.0			Advanced course in designing prints for the textile industry. Primary emphasis is the further development of a personal aesthetic appropriate to industry needs as well as that of the student-designer.			
Topics for investigation selected with the approval of the instructor.				<i>Prerequisite: G 1090 210.</i>			
<i>Prerequisite: G 1011 426.</i>							
G 1011 428				G 1090 218			
INDEPENDENT STUDY IN PHOTOGRAPHY:				METALWORK AND JEWELRY I		3.0	
A CONTEMPORARY ART FORM IV	3.0			Introduction to metal working and jewelry techniques traditionally used in the shaping of useful articles.			
Topics for investigation selected with the approval of the instructor.							
<i>Prerequisite: G 1011 427.</i>							
G 1011 450				G 1090 219			
COMMERCIAL PHOTOGRAPHY	4.0			METALWORK AND JEWELRY II		3.0	
Workshop and problem solving of commercial applications in photography; view camera to 35mm, color and black and white materials, studio lighting, photo illustration, photo essay, marketing, field trips. Visiting professionals.				Advanced design concepts and metalworking techniques.			
<i>Prerequisite: G 1011 310, majors only.</i>				<i>Prerequisite: G 1090 218.</i>			
G 1011 484				G 1090 225			
A HISTORY OF PHOTOGRAPHY	3.0			SURFACE DESIGN II		3.0	
The roots of photography; its practitioners and the social and historical circumstances surrounding its creation.				Continuation of G 1090 207.			
				<i>Prerequisite: G 1090 207.</i>			
G 1090 200				G 1090 301			
LEATHER I	3.0			CERAMICS: POTTERY AND SCULPTURE III		3.0	
Use of skins and hides to create items of artistic and/or functional value. Emphasis on the design and execution of works in one or all forms of leather and fur.				Continuation of 1090 203.			
				<i>Prerequisite: G 1090 203.</i>			
G 1090 202				G 1090 302			
CERAMICS: POTTERY AND SCULPTURE I	3.0			CERAMICS: POTTERY AND SCULPTURE IV		3.0	
Forming methods, clay composition, glazing and firing, the history of ceramics.				Continuation of 1090 301.			
				<i>Prerequisite: G 1090 301.</i>			
G 1090 203				G 1090 304			
CERAMICS: POTTERY AND SCULPTURE II	3.0			FIBERS AND FABRICS III		3.0	
Continuation of G 1090 202.				Further exploration of a technique or techniques selected by the student. A research paper on the historical implications of a technique and a final project are required.			
<i>Prerequisite: G 1090 202.</i>				<i>Prerequisite: G 1090 205.</i>			
G 1090 204				G 1090 305			
FIBERS AND FABRICS I	3.0			FIBERS AND FABRICS IV		3.0	
Techniques employed by fiber artists and the textile industry; on-loom and off-loom weaving; spinning and vegetable dyeing; and fabric and fiber techniques in contemporary work.				Exploration of area or areas of textile techniques selected by the student. An exhibit of work done during the semester is to be planned and hung by the student.			
				<i>Prerequisite: G 1090 304.</i>			
G 1090 205				G 1090 310			
FIBERS AND FABRICS II	3.0			LEATHER III		3.0	
One or more areas of endeavor selected for exploration. Emphasizes research into the various techniques and mastery of the methods.				Continuation of G 1090 206.			
<i>Prerequisite: G 1090 204.</i>				<i>Prerequisite: G 1090 206.</i>			
G 1090 206				G 1090 320			
LEATHER II	3.0			SURFACE DESIGN III		3.0	
Continuation of G 1090 200.				Continuation of G 1090 225.			
<i>Prerequisite: G 1090 200.</i>				<i>Prerequisite: G 1090 225.</i>			
G 1090 207				G 1090 325			
SURFACE DESIGN I	3.0			SURFACE DESIGN IV		3.0	
Selected printing, dyeing and fabric manipulation techniques.				Continuation of 1090 320.			
<i>Prerequisite: G 1090 204.</i>				<i>Prerequisite: G 1090 320.</i>			
G 1090 210				G 1090 335			
TEXTILE DESIGN I	3.0			METALWORK AND JEWELRY III		3.0	
Pattern rendering and putting designs into repeat for the textile industry.				Traditional techniques, advanced design concepts and techniques.			
				<i>Prerequisite: G 1090 219.</i>			
				G 1090 350			
				CERAMICS: POTTERY AND SCULPTURE V		3.0	
				Continuation of G 1090 302.			
				<i>Prerequisite: G 1090 302.</i>			

G 1090 400			G 1090 437		
TEXTILE TRADITIONS	3.0		INDEPENDENT STUDY: METALWORK AND JEWELRY I	3.0	
Study of the unchanged textile traditions of both the East and West and their relations to the contemporary fiber experience			Topics for investigation selected with the approval of the instructor		
G 1090 401			G 1090 438		
HISTORY OF TEXTILES	3.0		INDEPENDENT STUDY IN METALWORK AND JEWELRY II	3.0	
The evolution of textile equipment and techniques from primitive cultures to the contemporary era.			Topics for investigation selected with the approval of the instructor.		
			<i>Prerequisite: G 1090 437.</i>		
G 1090 412			G 1090 439		
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE I	3.0		INDEPENDENT STUDY IN METAL WORK AND JEWELRY III	3.0	
Topics for investigation selected with the approval of the instructor.			Topics for investigation selected with the approval of the instructor.		
			<i>Prerequisite: G 1090 438.</i>		
G 1090 413			G 1090 440		
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE II	3.0		INDEPENDENT STUDY IN METALWORK AND JEWELRY IV	3.0	
Topics for investigation selected with the approval of the instructor.			Topics for investigation selected with the approval of the instructor.		
<i>Prerequisite: G 1090 412.</i>			<i>Prerequisite: G 1090 439.</i>		
G 1090 414			G 1090 441		
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE III	3.0		FIBERS AND FABRICS V	3.0	
Topics for investigation selected with the approval of the instructor.			Continuation of G 1090 305.		
<i>Prerequisite: G 1090 413.</i>			<i>Prerequisite: G 1090 305.</i>		
G 1090 415			G 1090 442		
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE IV	3.0		FIBERS AND FABRICS VI	3.0	
Topics for investigation are selected with the approval of the instructor.			Continuation of comprehensive studies in progress through Fibers and Fabrics I-V.		
<i>Prerequisite: G 1090 414.</i>			<i>Prerequisite: G 1090 441.</i>		
G 1090 416			G 1090 450		
INDEPENDENT STUDY I: TEXTILES	3.0		APPLIED TEXTILE DESIGN	3.0	
Topics for investigation selected with the approval of the instructor.			Designing for the power loom with emphasis on the Jacquard process.		
			<i>Prerequisites: G 1090 305, instructor's permission.</i>		
G 1090 417			G 1090 480		
INDEPENDENT STUDY II: TEXTILES	3.0		CERAMICS: POTTERY AND SCULPTURE VI	3.0	
Topics for investigation are selected with the approval of the instructor.			Continuation of G 1090 350.		
<i>Prerequisite: G 1090 416.</i>			<i>Prerequisite: 1090 350.</i>		
G 1090 418			G 1090 496		
INDEPENDENT STUDY III: TEXTILES	3.0		LEATHER IV	3.0	
Topics for investigation are selected with the approval of the instructor.			A continuation of the study of skins, hides and fur as creative materials.		
<i>Prerequisite: G 1090 417.</i>			Emphasis is placed on the use of the basic skills learned in the preceding courses.		
G 1090 419			<i>Prerequisite: G 1090 310.</i>		
INDEPENDENT STUDY IV: TEXTILES	3.0		G 1091 330		
Topics for investigation are selected with the approval of the instructor.			MUSEUM PRACTICE	3.0	
<i>Prerequisite: G 1090 418.</i>			A study of museum techniques, much of it at museums in the metropolitan area with the participation of their staffs. Field trips and, if possible, brief apprenticeships.		
G 1090 420			G 1091 489		
SURFACE DESIGN V	3.0		EXHIBITION WORKSHOP I	3.0	
Continuation of G 1090 325.			Exhibition techniques and procedures; mounting of shows on campus.		
<i>Prerequisite: G 1090 325.</i>					
G 1090 425			G 1091 490		
SURFACE DESIGN VI	3.0		EXHIBITION WORKSHOP II	3.0	
Advanced studies in printing, dyeing and manipulation of fabric techniques.			Continuation of G 1091 489.		
<i>Prerequisite: G 1090 420.</i>			<i>Prerequisite: G 1091 489.</i>		
G 1090 436					
METALWORK AND JEWELRY IV	3.0				
Continuation of G 1090 335.					
<i>Prerequisite: G 1090 335.</i>					

- G 1095 250
INTRODUCTION TO ART THERAPY 3.0
An historical and theoretical overview including the literature and current trends in the field. Students will use a variety of art materials to express personal symbolism, fantasy, and dreams. Open to non-majors.
- G 1095 310
GROUP ART THERAPY AND CREATIVITY DEVELOPMENT 3.0
Students will participate in small art therapy groups where under the guidance of a registered art therapist emerging themes (life situations, choices, attitudes, self-concepts, norms, etc.) will be explored. open to non-majors.
- G 1095 450
STUDIO TECHNIQUES IN ART THERAPY 3.0
Materials and techniques of art therapy are directly experienced through practice. Open to non-majors. No previous art background is required.
Prerequisite: G 1095 250.
- G 1095 460
ART THERAPY PRACTICE 3.0
Discussion of case presentations from fieldwork to integrate clinical and didactic experiences.
Prerequisite: G 0831 450.
- G 1099 450
INTRODUCTION TO PERFORMING ARTS MANAGEMENT I 3.0
Structures of performing arts organizations in the U.S.
Prerequisite: 9 semester hours in arts appreciation or applied work. Permission of instructor or department.
- G 1099 451
INTRODUCTION TO PERFORMING ARTS MANAGEMENT II 3.0
Problems and theories of arts management for performing groups in the U. S. Marketing, production, fund-raising and other aspects of operation.
Prerequisite: G 1099 450 or permission of instructor.
- G 4921 120
INTRODUCTION TO PRINTMAKING 3.0
Woodcut, screen printing and monoprints; etching, drypoint and lithography. Exploration of new and advanced techniques.
- G 4921 200
INTRODUCTION TO INTAGLIO AND RELIEF PRINTING 3.0
Drypoint, engraving, etching and major techniques like line and open bite, soft ground, stop out procedure, life ground, mezzotint and aquatint.
- G 4921 201
INTRODUCTION TO SCREEN PRINTING 3.0
Screen printing including misfit, tusche, glue, lacquer and stencil and photographic techniques.
- G 4921 202
INTRODUCTION TO LITHOGRAPHY 3.0
Chemicals, tools, materials and techniques of the process.
- G 4921 220
GRAPHIC TECHNOLOGY FOR THE ARTIST AND DESIGNER 3.0
A survey of the techniques used in the production of all printed material. Students will gain experience in the use of materials and equipment commonly used by commercial printers, graphic designers, photographers, and printmakers. (Use of the following materials: Orthochromatic films and papers, Cibachrome color process materials, Diazo materials, 3-M Color Key proffing films. Use of the following machines: Vertical Copy Camera, Ilford Color Copier, Diazo Machine, Platemaker, Diffusion Transfer Processor.)
- G 4921 230
HISTORY OF THE PRINT 3.0
The principal types of prints from their beginnings to today. For both majors and students in other fields.
- G 4921 334
MEDIA COMMUNICATION I: PUBLICATION DESIGN 3.0
Advanced design problems for publications ranging from posters to brochures, pamphlets and booklets to magazines and other editorial formats emphasizing two-dimensional multiple page or multiple panel layout. Character count and projection of space requirements, economics of paper stock and size selection, exploiting the potential on one, two and three color jobs through screens and over-printing.
Prerequisites: G 1001 212, 313, 375, 415, 460 or instructor's permission.
- G 4921 340
MEDIA COMMUNICATION II: PACKAGE DESIGN 3.0
A survey of the state of the art in packaging. Course projects will be based on the consumer product industry. Graphic problems for three-dimensional objects and display. Package design comprehensive techniques for Art Director and Client presentation. Grasping product essence and interpreting client needs and the demands of the marketplace.
Prerequisites: G 1001 212, 313, 375, 415, 460 or instructor's permission.
- G 4921 344
TYPOGRAPHY I 3.0
Advanced problems of typographic design including headline letter spacing, complex problems of body copy design and the fine points of leading, column width, copy color, mixing of faces, use of negative space in typographic composition so that an idea is communicated without actually being read. Study of the great typographic designers of our time and the subtleties of personal style. Current trends in typography.
Prerequisites: G 1001 212, 313, 375, 415, 460, or instructor's permission.
- G 4921 348
TYPOGRAPHY II: CORPORATE IDENTIFICATION SYSTEMS AND LOGO DESIGN 3.0
Analysis of identity systems from cottage industries to corporate giants. Development, presentation, consistency and projected public image. Historical roots of identity symbols and systems from ancient to contemporary in religious, political and social usage. Design problems in logo and system design.
Prerequisites: G 1001 212, 313, 375, 415, 460 or instructor's permission.
- G 4921 350
ILLUSTRATION I: SURVEY OF CONCEPTS AND METHODS 3.0
A study of the major historical and contemporary themes of illustration and its influences. Through slide presentation the work of leading illustrators will be shown and discussed, and the relationship between commercial art and fine art will be explored. Illustration assignments will provide concrete experience of the related thematic issues and introduce formal approaches and relevant techniques.
Prerequisites: G 1001 212 or instructor's permission.
- G 4921 352
ILLUSTRATION II: DRAWING: MATERIALS AND TECHNIQUES 3.0
The illustrator's approach to drawing, from the preliminary brainstorming and rough sketches to the finished art. Emphasis will be placed upon the quality of line, delineation of form and techniques of shading and their special relationship to print reproduction. Materials and techniques used in illustration including the wide variety of papers, pens and inks, pencils, colored pencils, markers, crayons, pastels and oil pastels and scratch-board.
Prerequisites: G 1001 212, G 4921 350 or permission of instructor.

G 4921 354
ILLUSTRATION III: PAINTING: MATERIALS AND TECHNIQUES 3.0
 The technical approaches, styles and materials employed in painting for illustration; opaque and transparent water color painting, painting with inks and dyes, acrylics both as a direct medium and through glazing. Emphasis on the expressive use of color, form, line, light source and shadow and composition as tools for problem solving in illustration
Prerequisites: G 1001 212, G 4921 350, 352 or instructor's permission

G 4921 356
ILLUSTRATION IV: ADVANCED PROBLEMS 3.0
 The reading of manuscripts, development and visualization of concepts. The business aspects of illustration; working with art directors and interpreting client needs and the preparation of a professional portfolio. Independent assignments prepare the student for professional work.
Prerequisites: G 1001 212, G 4921 350, 352, 354 or instructor's permission.

G 4921 363
ADVANCED PRINTMAKING I 3.0
 Consideration of printmaking media. Particular attention to the growth and development of art-making concepts as they relate to the printmaking processes.

G 4921 364
ADVANCED PRINTMAKING II 3.0
 Continuation of G 4921 363.
Prerequisite: G 4921 363.

G 4921 400
ADVANCED PRINTMAKING III 3.0
 Continuation of G 4921 364.
Prerequisite: G 4921 364.

G 4921 401
ADVANCED PRINTMAKING IV 3.0
 Continuation of G 4921 400.
Prerequisite: G 4921 400.

G 4921 431
INDEPENDENT STUDY: PRINTMAKING I 3.0
 Topics for investigation selected with approval of instructor.

G 4921 432
INDEPENDENT STUDY: PRINTMAKING II 3.0
 Topics for investigation selected with approval of instructor.
Prerequisite: G 4921 431.

G 4921 433
INDEPENDENT STUDY: PRINTMAKING III 3.0
 Topic for investigation selected with approval of instructor.
Prerequisite: G 4921 432.

G 4921 434
INDEPENDENT STUDY: PRINTMAKING IV 3.0
 Topic for investigation selected with approval of instructor.
Prerequisite: G 4921 433.

G 4921 470
INDEPENDENT STUDY IN MULTI-IMAGE MEDIA 4.0
 Use of media for presentation, exhibition or publication. Topics selected with the approval of the instructor.

French

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Madeleine Sergent

The department of French provides courses that develop linguistic skills, literary appreciation, and an understanding of the French people and their culture.

French majors may choose the translation-interpretation concentration to enhance their linguistic skills or to enter careers related to international organizations. They may also take related business courses.

Students may specialize in teacher education and prepare for careers as secondary school teachers. Students may also select a minor or a second teaching field in French.

It is highly recommended that majors spend a year, a semester, or a summer studying in a French speaking country. This study should be planned for the junior year. The French Department has affiliated itself with the University of Massachusetts' Study Abroad programs which offer the flexibility of a Summer Session in Dijon, a Spring Semester in Angers, and a full year in Paris. Other options are also possible.

French Major

Required Courses (Liberal Arts)

	Semester Hours
1102 150, 151 French Stylistics and Composition I, II	3 each
1102 155 French Phonetics	2
1102 250 Advanced Composition	3
1102 220 Explication de Texte	3
1102 201 17th Century French Literature (Prerequisite: 1102 220)	3
1102 210 18th Century French Literature (Prerequisite: 1102 220)	3
1102 301 19th Century French Literature (Prerequisite: 1102 220)	3
1102 310 20th Century French Literature (Prerequisite: 1102 220)	3
1102 360 French Perspectives (Prerequisite: 1102 220)	3

Electives (Major)

Select 8 semester hours from the appropriate list to be obtained from the department	8
Total	34

Teacher Education

1102 150, 151 French Stylistics and Composition I, II	3 each
1102 155 French Phonetics	2
1102 250 Advanced Composition	3
1102 220 Explication de Texte	3
1102 310 20th Century French Literature (Prerequisite: 1102 220)	3
1102 360 French Perspectives	3
1102 410 Advanced French Grammar	3

Select two

1102 201	17th Century French Literature (Prerequisite: 1102 220)	3
1102 210	18th Century French Literature (Prerequisite: 1102 220)	3
1102 301	19th Century French Literature (Prerequisite: 1102 220)	3

Electives (Major)

Select 8 semester hours from the appropriate list to be obtained from the department 8

1505 210 Introduction to General Linguistics 3
(Recommended for all French majors.)

Total 37

Concentration Programs Within the Major

Translation

Required Courses

	Semester Hours
1102 150, 151 French Stylistics and Composition I, II	3 each
1102 155 French Phonetics	2
1102 160 French Civilization: 19th and 20th Centuries	3
1102 220 Explication de Texte	3
1102 250 Advanced Composition	3
1102 310 20th Century French Literature	3
1102 350 Translation I	3
1102 351 Translation II	3
1102 360 French Perspectives	3
1102 365 Introduction to Consecutive and Simultaneous Interpreting or	3
1102 452 Translation III	3
1102 410 Advanced French Grammar	3

Electives (Major)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Total 41

French Minor

Required Courses (Liberal Arts Emphasis)

1102 150, 151 French Stylistics and Composition I, II	3 each
1102 155 French Phonetics	2
1102 220 Explication de Texte	3

Electives (Major)

French Literature and Civilization 7

Total 18

Required Courses (Business Emphasis)

	Semester Hours
1102 121, 132 Intermediate French I, II	3 each
1102 150, 151 French Stylistics and Composition I, II	3 each
1102 135 Commercial French I	3
1102 165 Spoken Language Practice	3
1102 145 Introduction to French Culture	3
Total	21

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. In addition, French majors must have a "B" average in French, take the Teacher Education courses under the French Major Requirements, and 1102 419 The Teaching of French in Secondary Schools.

Second Teaching Field in French

Required Courses

1102 150, 151 French Stylistics and Composition I, II	3 each
1102 155 French Phonetics	2
1102 220 Explication de Texte	3
1102 250 Advanced Composition	3
1102 165 Spoken Language Practice	3
1102 410 Advanced French Grammar	3

Electives

Select 6 semester hours from the appropriate list to be obtained from the department 6

NOTE: If a student has not taken a teaching methods course in a foreign language it is necessary to take O 1102 419, The Teaching of French in Secondary Schools.

Total 26

Courses of Instruction

O 1102 100
FRENCH READING COURSE 3.0
Learning to read French as a tool for research (a service course for M.A. candidates in English; successful completion of this course will satisfy the language requirement).

O 1102 101
BEGINNING FRENCH I 3.0
For students starting French in college, or students who have been placed at this level after taking the Placement Test. The fundamentals of speaking, reading and writing through classroom drill, video-cassettes and laboratory work.

O 1102 112
BEGINNING FRENCH II 3.0
For students having completed Beginning French I or who have been placed at this level after taking the Placement Test. Continuation of basic skills through classroom drill, video-cassettes and laboratory work.
Prerequisite: O 1102 101 or equivalent.

O 1102 121
INTERMEDIATE FRENCH I 3.0
Developing of listening, reading and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available.
Prerequisite: O 1102 112 or equivalent.

O 1102 132
INTERMEDIATE FRENCH II 3.0
Developing of listening, reading, and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available.
Prerequisites: O 1102 121 or equivalent.

O 1102 135, 136
COMMERCIAL FRENCH I, II 3.0 each
A two-semester sequential course, conducted entirely in French, emphasizing the development of the specialized language skills of commercial French, through the study of the French economy-commercial professions and enterprises.
Prerequisite: O 1102 151 or equivalent.

O 1102 145	INTRODUCTION TO FRENCH CULTURE	3.0	O 1102 301	NINETEENTH CENTURY FRENCH LITERATURE	3.0
Various aspects of contemporary France such as politics, education, social and artistic movements.			Principal literary currents from romanticism to symbolism.		
<i>Prerequisite: O 1102 121.</i>					
O 1102 146	READINGS IN FRENCH LITERATURE	3.0	O 1102 310	TWENTIETH CENTURY FRENCH LITERATURE	3.0
Representative selections from major works and authors providing a general knowledge of French literature and socio-cultural movements through the ages.			Representative works of contemporary theatre and the novel		
<i>Prerequisite: O 1102 121.</i>					
O 1102 150	FRENCH STYLISTICS AND COMPOSITION I	3.0	O 1102 311	CONTEMPORARY FRENCH DRAMA	2.0
Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program.			Theatre from the beginning of the century to the present		
<i>Prerequisite: O 1102 132 or equivalent.</i>					
O 1102 151	FRENCH STYLISTICS AND COMPOSITION II	3.0	O 1102 345	DEVELOPMENT OF FRENCH NOVEL TO 1900	3.0
Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program.			Evolution of fiction from the feminist writings of Mme de la Fayette and Diderot's literature of social involvement to the present.		
<i>Prerequisite: O 1102 150.</i>					
O 1102 155	FRENCH PHONETICS	2.0	O 1102 349	FRANCOPHONE LITERATURE	3.0
Weekly transcriptions, problems of articulation, rhythm, accentuation and intonation. Intensive language laboratory work.			Literature of French expression outside continental France.		
O 1102 160	FRENCH CIVILIZATION: 19TH AND 20TH CENTURIES	3.0	O 1102 350	TRANSLATION I	3.0
Various aspects of the material, intellectual, artistic, and spiritual life of France.			Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.		
O 1102 165	SPOKEN LANGUAGE PRACTICE	3.0	O 1102 351	TRANSLATION II	3.0
Intensive conversation with organized discussions on subjects of special interest.			Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.		
O 1102 201	SEVENTEENTH CENTURY FRENCH LITERATURE	3.0	<i>Prerequisite: O 1102 350.</i>		
The most representative authors of the century.			O 1102 360	FRENCH PERSPECTIVES	3.0
O 1102 210	EIGHTEENTH CENTURY FRENCH LITERATURE	3.0	A French viewpoint on contemporary problems emphasizing interrelationships of political, social and economic fields.		
Main writings of the age of enlightenment.			O 1102 365	INTRODUCTION TO CONSECUTIVE AND SIMULTANEOUS INTERPRETING	3.0
O 1102 220	EXPLICATION DE TEXTE	3.0	The field of cross-cultural communications (with emphasis on the French-speaking world) and practice in the techniques of simultaneous and consecutive interpreting. French-English, English-French.		
Improvement of reading skills and literary perception through the technique of the Explication de Texte, using examples from a wide variety of periods and genres.			<i>Prerequisites: O 1102 350, O 1102 351.</i>		
<i>Prerequisite: O 1102 151.</i>			O 1102 367, 368, 369	SEMINARS	3.0-12.0 each
O 1102 250	ADVANCED COMPOSITION	3.0	Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.		
A review of advanced grammar through intensive written and oral practice.			O 1102 375	FRENCH STUDY ABROAD	Credit by evaluation
O 1102 260	ORIGINS OF FRENCH CIVILIZATION	3.0	Study at a university in a French speaking country to gain first-hand knowledge of the historical, social, economic, and cultural life of the country. Options include Summer Session in Dijon, Spring Semester in Angers or a full year in Paris. See Junior Year Abroad Advisor		
French history and cultural development from the Middle Ages to the Revolution.			O 1102 380	COOPERATIVE EDUCATION FOR THE FRENCH MAJOR	4.0-8.0
O 1102 265	ADVANCED SPOKEN LANGUAGE PRACTICE	3.0	Supervised work experience and academic project in professional field related to major.		
Intensive conversation on an advanced level on selected and varied topics.			O 1102 410	ADVANCED FRENCH GRAMMAR	3.0
			A review of the most important structural features of French, with special emphasis on areas of interference with English structure.		

O 1102 419
THE TEACHING OF FRENCH IN SECONDARY SCHOOLS 3.0
 Lesson planning, evaluation of techniques, demonstration of teaching procedures, teaching aids, exploration of direct method and audio-lingual approaches.

O 1102 452
TRANSLATION III 3.0
 Translation of articles in specific fields of interest to improve translation skills.
Prerequisites: O 1102 350, O 1102 351.

O 1102 470
SEMINAR 3.0-12.0
 Selected topic to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

O 1102 472
FRENCH LANGUAGE WORKSHOP 2.0
 A thorough foundation in French at the level required for successful graduate studies.

O 1102 478
INDEPENDENT STUDY 1.0-3.0
 Directed independent study and research in French language and literature.

German and Slavic

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: John V. Moore

A command of the German or Russian language with an understanding of the respective literature and culture is the object of the courses offered by the department. The German program offers a liberal arts major, a teacher education major plus a second teaching field and a liberal arts minor. The Russian program offers a liberal arts minor and a second teaching field, as well as required courses for the Russian Area Studies minor.

Because it is important to learn to speak a language in the native setting, German majors are encouraged to study in a German-speaking country. With departmental approval, academic credit can be given for this experience.

German Major

Required Courses

	Semester Hours
1103 141 Review of Fundamental Grammar	3
1103 151, 152 Advanced German I, II	3 each
1103 251, 252 Introduction to German Literature I, II	3 each
1103 351, 352 German Civilization I, II	3 each

Electives (Major)

Select 12 semester hours from the appropriate list to be obtained from the department 12

German Minor

Required Courses

	Semester Hours
1103 141 Review of Fundamental Grammar	3
1103 151, 152 Advanced German I, II	3 each

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Russian Minor*

Required Courses

1106 101 and 112 Beginning Russian I, II	6
1106 121 and 132 Intermediate Russian I, II	6
1106 141 and 152 Advanced Russian I, II	6

Russian Area Studies Minor

Required Courses

1106 101, 112 Beginning Russian I, II	6
Soviet History or Political Science (see department entries)	6

Electives (Departmental)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Electives (Interdepartmental)

The Russian Area Studies minor is interdisciplinary, and appropriate elective courses may be selected from the Departments of History, Political Science, Geography, and Economics, as well as from offerings in Russian language, literature and civilization, with permission of the program coordinator.

*Other courses may be selected under certain circumstances with departmental approval.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. The following are the departmental course requirements for the program:

	Semester Hours
1505 210 Introduction to General Linguistics	3
1103 410 German Grammar: Applied Linguistics	3
1103 419 Teaching German in Secondary Schools	3

Electives (Not required but recommended)

1103 142 Practice in Written German	3
1103 209 Phonetics and Phonology	3

Second Teaching Field in German

1103 141 Review of Fundamental Grammar	3
1103 151, 152 Advanced German I, II	3 each
1103 251, 252 Introduction to German Literature I, II	3 each
3 additional courses in German (1103) beyond intermediate level	9

Second Teaching Field in Russian*

1106 101 and 112	Beginning Russian I, II	6
1106 121 and 132	Intermediate Russian I, II	6
1106 141 and 152	Advanced Russian I, II	6
4903 293	Russian Culture and Civilization	3
4903 294	Russian Prose and Drama	3

*Under certain circumstances and with permission of the department chairperson, other selected courses may be counted.

Courses of Instruction

O 1103 101	BEGINNING GERMAN I	3.0
For students without previous instruction in German. Emphasis on speaking, with practice in reading and writing simple German. Laboratory work.		

O 1103 103	BEGINNING GERMAN I (READING)	3.0
For students without previous instruction in German. Emphasis on acquiring a reading knowledge of the language. Suggested as preparation for graduate school language requirements or for careers in which reading knowledge of German is needed.		

O 1103 112	BEGINNING GERMAN II	3.0
Emphasis on speaking, with practice in reading and writing simple German. Laboratory work.		
<i>Prerequisite: O 1103 101 or equivalent.</i>		

O 1103 114	BEGINNING GERMAN II (READING)	3.0
Emphasis on acquiring a reading knowledge of the language. Suggested as preparation for graduate school language requirements or for careers in which reading knowledge of German is needed.		
<i>Prerequisite: O 1103 103 or equivalent.</i>		

O 1103 121	INTERMEDIATE GERMAN I	3.0
Continuation of German 101 and 112. Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work.		
<i>Prerequisite: O 1103 112 or equivalent.</i>		

O 1103 123	INTERMEDIATE GERMAN I (READING)	3.0
Continuation of German 103 and 114. Open to students who have acquired an elementary reading knowledge of German elsewhere. More difficult German reading in various fields.		
<i>Prerequisite: O 1103 114 or equivalent.</i>		

O 1103 132	INTERMEDIATE GERMAN II	3.0
Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work.		
<i>Prerequisite: O 1103 121 or equivalent.</i>		

O 1103 134	INTERMEDIATE GERMAN II (READING)	3.0
Open to students who have acquired an elementary reading knowledge of German elsewhere. More difficult German reading in various fields.		
<i>Prerequisite: O 1103 123 or equivalent.</i>		

O 1103 141	REVIEW OF FUNDAMENTAL GRAMMAR	3.0
Oral and written practice for better control of language structure. Required for freshman majors, who are given admission preference.		
<i>Prerequisites: O 1103 132, 134 or equivalent</i>		

O 1103 142	PRACTICE IN WRITTEN GERMAN	3.0
Increasingly difficult written assignments to develop command of idiomatic German. Strongly recommended for majors desiring teacher certification.		
<i>Prerequisite: O 1103 141.</i>		

O 1103 151	ADVANCED GERMAN I	3.0
Continuation of Intermediate German on a more advanced level. Students must follow class instruction in German, speak and write simple idiomatic German and read and discuss increasingly difficult assignments in literary German, particularly in the second semester. Required for freshman majors, who are given admission preference.		
<i>Prerequisites: O 1103 132, 134 or equivalent.</i>		

O 1103 152	ADVANCED GERMAN II	3.0
Students must follow class instruction in German, speak and write simple idiomatic German and read and discuss increasingly difficult assignments in literary German, particularly in the second semester. Required for freshman majors, who are given admission preference.		
<i>Prerequisite: O 1103 151.</i>		

O 1103 209	PHONETICS AND PHONOLOGY	3.0
Application of phonetic science to the acquiring and teaching of good pronunciation; the international phonetic alphabet; problems of articulation; rhythm, accentuation and intonation. Strongly recommended for majors desiring teacher certification.		

O 1103 251, 252	INTRODUCTION TO GERMAN LITERATURE I, II	3.0 each
Standard works of German literature from the classical period to the present; methods of literary interpretation; developmental approach to the principal epochs of German literature. Required of sophomore majors, who are given preference.		
<i>Prerequisite for O 1103 252: O 1103 251.</i>		

O 1103 309	PRACTICE IN SPOKEN GERMAN	3.0
Intensive conversation practice to improve fluency and increase active vocabulary.		

O 1103 310	ADVANCED COMPOSITION	3.0
Intensive written exercises to improve command of the German language; some oral work.		

O 1103 315	TRANSLATION I	3.0
Intensive practice in the skills of translating professional texts from German into English and from English into German.		
<i>Prerequisite: Instructor's permission</i>		

O 1103 316	TRANSLATION II	3.0
Continuation of 315 with more intensive exposure to the skills of translation. Recommended for qualified students interested in a possible future career as bilingual secretary, translator of commercial texts, etc.		
<i>Prerequisite: O 1103 315, instructor's permission.</i>		

- O 1103 317
TRANSLATION III 3.0
Continuation of 316 with conclusion of training in international business translation. Development of increasingly sophisticated skills required to translate professionally in a variety of fields. Emphasis on translation from German into English.
Prerequisite: O 1103 316, instructor's permission.
- O 1103 318
TRANSLATION IV 3.0
Continuation of 317 with increasingly technical and specialized texts translated into the student's native language. Two individual projects in two areas of special interest.
Prerequisite: O 1103 317, instructor's permission.
- O 1103 320
DEVELOPMENT OF THE GERMAN LANGUAGE 3.0
Background, growth, and structure of the German language from the Indo-European and Germanic beginnings to the language as spoken today; historical explanation of modern German grammar.
- O 1103 341
GERMAN LITERATURE FROM THE ORIGINS TO THE REFORMATION 3.0
Works representative of the Old High German, Middle High German, and late medieval periods read in modern German version. The most important genres and trends, ending with excerpts from Luther's works.
- O 1103 342
GERMAN LITERATURE FROM THE 16TH TO THE 18TH CENTURIES 3.0
Representative works illustrating the trends preceding the classical period.
- O 1103 351
GERMAN CIVILIZATION I 3.0
Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary problems of divided Germany; re-unification, the respective political and educational systems and cultural trends. Required of junior majors, who are given admission preference.
- O 1103 352
GERMAN CIVILIZATION II 3.0
Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary problems of divided Germany; re-unification, the respective political and educational systems and cultural trends. Required of junior majors, who are given admission preference.
Prerequisite: O 1103 351.
- O 1103 360
MODERN GERMAN PROSE FICTION 3.0
Reading and discussion of great German novels and novellas of the 19th and 20th centuries; the personal and stylistic characteristics of the authors; the literary periods they represent.
- O 1103 362
DEVELOPMENT OF GERMAN POETRY 3.0
The poetical movements, authors and genres since 1600; the evolution of forms, such as the sonnet and the ode; analysis and interpretation of poetry.
- O 1103 364
GERMAN DRAMA OF THE 19TH AND 20TH CENTURIES 3.0
Reading and discussion of outstanding plays and dramatists from Goethe's death to the present; interpretation and theories of dramas.
- O 1103 375
STUDY ABROAD Credit by evaluation
An opportunity to gain first-hand knowledge of the historical, social, and economic and cultural life of German-speaking Europe. Semester hours will be granted by evaluation.
- O 1103 380
INDEPENDENT STUDY IN GERMAN (JUNIOR LEVEL) 3.0
Directed individual study and research in German for junior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest.
- O 1103 381
INDEPENDENT STUDY IN GERMAN (JUNIOR LEVEL) 3.0
Directed individual study and research in German for junior majors with the desire, ability, and responsibility necessary to pursue a special scholarly interest.
- O 1103 385
COOPERATIVE EDUCATION FOR GERMAN MAJORS 4.0
This course provides opportunity for the student to extend the academic learning experience beyond the campus by placing him/her in meaningful learning situations with thoroughly screened and approved employers. This supervised work experience, connected with an academic project in a professional field related to the major, will enhance the student's professional qualifications.
Prerequisites: Minimum junior status; minimum 3.00 cumulative grade point average.
- O 1103 410
GERMAN GRAMMAR: APPLIED LINGUISTICS 3.0
A review of the most important structural features of German; areas of interference with English structure which present the greatest difficulties to the American student of German. Required for majors desiring teacher certification.
- O 1103 419
TEACHING GERMAN IN SECONDARY SCHOOLS 3.0
The aims, objectives and methods used in teaching German in secondary schools; textbooks, supplementary teaching materials, language laboratory, tests, etc. Required for majors desiring teacher certification.
- O 1103 441
THE AGE OF GOETHE 3.0
The life and works of Goethe; his continuing importance; reading from all important genres in which Goethe wrote.
- O 1103 442
THE AGE OF SCHILLER 3.0
The life and works of Schiller; his continuing importance; reading from the dramas, essays and poems.
- O 1103 460
SENIOR SEMINAR 3.0
Study in depth of significant figures not adequately treated elsewhere in the departmental offerings (Holderlin, Kleist, etc.) or detailed study of special literary groups (German symbolist poets, etc.). Each student produces a research paper.
- O 1103 480, 481
INDEPENDENT STUDY IN GERMAN (SENIOR LEVEL) 3.0 each
Directed individual study and research in German for senior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest.
- O 1106 101, 112
BEGINNING RUSSIAN I, II 3.0 each
The fundamentals of grammar and pronunciation. Lab work.
Prerequisite for O 1106 112: O 1106 101 or equivalent.

O 1106 121, 132
INTERMEDIATE RUSSIAN I, II 3.0 each
 Continuation of Russian 101 and 112. Open to students who have acquired an elementary knowledge of Russian elsewhere. Detailed review of Russian grammar and pronunciation, more advanced conversation. Lab work.
Prerequisite for O 1106 121: O 1106 101 or equivalent.
Prerequisite for O 1106 132: O 1106 121 or equivalent.

O 1106 141, 152
ADVANCED RUSSIAN I, II 3.0 each
 Intensive study of Russian grammar, composition and translation, with assigned research in areas of special interest to individual students. Laboratory work.
Prerequisite for O 1106 141: O 1106 132 or equivalent.
Prerequisite for O 1106 152: O 1106 141 or equivalent.

O 1106 478
INDEPENDENT STUDY IN RUSSIAN 1.0-3.0
 Directed individual study and research in Russian for special students.
Prerequisite: Permission of instructor and department chairperson.

K 4903 292
GERMAN LITERATURE 1890-PRESENT 3.0
 The principle movements discernible in German literature since the end of the 19th century. Works representative of important authors and basic genres and trends. No knowledge of German is required. (Taught in English.)

K 4903 293
RUSSIAN CULTURE AND CIVILIZATION 3.0
 The history of Russian Literature and culture. Outstanding aspects of Russian civilization. No knowledge of Russian is required. (Taught in English.)

K 4903 294
RUSSIAN PROSE AND DRAMA 3.0
 Russian prose and drama from the 18th century to the present day. Representative works of Gogol, Turgenev, Dostoevski, Tolstoi and Gorki. No knowledge of Russian is required. (Taught in English.)

K 4903 295
GERMAN EXPRESSIONISM 3.0
 Various aspects of German expressionism. Encompassing roughly the period between the two world wars; the political and social climate of the Weimar republic; literature, painting, sculpture, music and the film of that era; defining expressionism as a specific historical period as well as a perennial stylistic device. (Taught in English.)

K 4903 296
PUSHKIN 3.0
 A study of the life and writings of Alexander Pushkin. Biographical material, cultural and historical perspectives, as well as readings in English translation from Pushkin's prose and poetry. No knowledge of Russian is required. (Taught in English.)

K 4903 392
THE MODERN GERMAN NOVEL 3.0
 Reading and discussion of selected novels by great 20th century authors who wrote in German: Thomas Mann, Franz Kafka, Hermann Hesse, etc. These works as expressions of the ages they represent. No knowledge of German is required. (Taught in English.)

K 4903 395
THE GERMAN "LIED" 3.0
 An interdisciplinary course tracing the German art song, setting up a procedure for the analysis of this mixed art form, evaluating individual efforts by comparing different musical settings of the same poem. Neither knowledge of German or musical sophistication is necessary. (Taught in English.)

Health Professions

SCHOOL OF PROFESSIONAL STUDIES

Chairperson: Harry H. Hoitsma

The health professions are growing. Whether already certified in an allied health specialty and seeking a chance to move into management, or looking for a career as a health educator, the department offers courses to prepare students for emerging opportunities in selected aspects of the health field.

The Bachelor of Science degree in health education includes preparation for community health positions and the necessary professional courses for a teaching certificate. The Bachelor of Science in Allied health services is designed for continuing the education of those already certified in one of the many allied health specializations. Here the course work develops leadership skills in management and supervision both at Montclair State and other cooperating institutions depending on the individual need.

Health Education Major

Required Courses

	Semester	Hours
0837 207 Safety, Accidents and Emergency Care	3	
0837 210 Consumer Health	3	
0837 220 Mental Health	3	
0837 240 Foundations of Environmental Health	3	
0837 290 Human Sexuality	3	
0837 213 Perspectives on Drugs	3	
0837 315 Community Health	3	
1306 182 Nutrition	3	
0401 254 Applied Microbiology	3	
0837 404 Tests and Measurements in Health Education	3	
0837 411 School Health and Community Services	3	
0837 330 Foundations of Health Education	3	

Teacher Certification Health Education, grades K-12

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. In addition, the course 0837 401 The Teaching of Health must be satisfactorily completed.

Professional Sequence Community Health Services Concentration

0837 245 Observation of Health Agencies	2
0837 350 Field Study in Health	6
0837 460 Systems of Health Services Delivery	3
Consult with academic advisor in selection of appropriate coursework chosen from following areas:	
Social and Behavioral Sciences	6
Mathematics and Sciences	6

Allied Health Services Major

Required Courses

	Semester Hours
0837 315 Community Health	3
0837 455 Core Concepts in the Delivery of Health Care	3
0837 460 Systems of Health Services Delivery	3
0506 311 Management Process and Organizational Behavior	4
0506 316 Human Resource Management	3
or	
0506 431 Middle and First Line Management	3
0502 201 Fundamentals of Accounting I	3
or	
0502 200 Accounting for Non Business Majors	3
1701 109 Statistics	3
0701 108 Computers and Programming	3
or	
0838 273 Introduction to Business Data Processing	3

Collateral Courses

2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3

Electives (Departmental)

Select 15 semester hours from the appropriate list to be obtained from the department 15

Electives (General)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Technical Specialty in Allied Health

. 24

This must be completed at an academically accredited institution prior to transfer to Montclair State College.

Physical Education and Health Dual Teacher Certification Requirement

The department offers a dual certification component in the Physical Education and Health major provided in conjunction with the department of Physical Education, Recreation and Leisure Studies. Satisfactory completion of this dual certification program leads to eligibility for a single New Jersey certificate in Physical Education and Health. The Health Education component in this program is as follows:

Required Courses

	Semester Hours
0837 401 Teaching of Health	3
0837 290 Human Sexuality	3
0837 411 School Health and Community Services	3
0837 213 Perspectives on Drugs	3
Select One	
0837 210 Consumer Health	3
0837 220 Mental Health	3
0837 240 Foundations of Environmental Health	3
Select Two	
0837 307 The Study of Human Diseases	3
0837 315 Community Health	3

or any other 0837 health profession course with advisement.

Physical Education requirements in this program are described in the department of Physical Education, Recreation and Leisure Studies section of this catalog.

Courses of Instruction

50837 101
HEALTH FOR PERSONAL LIVING 3.0
Examines health as a variable entity having physiological, psychological and environmental dimensions. Employs an individualized, participatory approach that includes: assessing one's own health status and behavior, increasing competencies in making health related decisions, eliciting health promoting behaviors and interpreting existing or proposed social actions that ultimately affect personal, family and community health.

50837 105
MEDICAL TERMINOLOGY 3.0
A basic health course introducing elements of medical terminology describing body parts, systems, functions and medical procedures. Emphasis will be placed on development of medical vocabulary and communication skills. The course will provide learning episodes in formulating medical abbreviations and translating complex terminology into lay terms, that ultimately will be applicable to careers in medical writing, health care delivery and management.

50837 207
SAFETY, ACCIDENTS AND EMERGENCY CARE 3.0
Provides for study of major safety areas including transportation, public safety, industrial and home safety. Emergency health care, first aid treatment, and preventive measures are considered in the context of individual, agency and institutional responsibilities.

50837 210
CONSUMER HEALTH 3.0
Interpretation of individual economic activity as it relates to health services and health products. Includes analysis of factors influencing consumer health attitudes and behavior.

50837 213
PERSPECTIVES ON DRUGS 3.0
Provides for the study of licit and illicit drug use in contemporary society from the perspective of selected biomedical and psychosocial disciplines. Examines the effects of drugs on the individual and society in the context of changing social conditions and technological developments. Analyzes complex nature of the drug problem, rehabilitative and preventive measures, and tentative solutions to this important aspect of human existence.

50837 220
MENTAL HEALTH 3.0
Provides for the study of human emotional adjustment throughout life from bio-medical and psychosocial perspectives. The factors that foster the development of emotional and mental well-being and the forces that contribute to the breakdown of human adjustment capabilities are identified and analyzed in light of research and clinical literature. Special attention is given to the strategies for the prevention of mental disorders and promotion of mental health.

50837 232
EMERGENCY HEALTH CARE 2.0
Considers the nature, causes and treatment of emergency health problems (accident, heart failure and heart attack, drug overdose, etc.), surveys community emergency services and provides insight into the scientific foundations of emergency health problems and treatment procedures.

50837 240
FOUNDATIONS OF ENVIRONMENTAL HEALTH 3.0
Prepares student to make informed decisions concerning the avoidance or elimination of disease-causing environmental exposures by providing an understanding of the scientific principles by which these exposures are identified, measured, and judged as to their acceptability.

- 5 0837 245
OBSERVATION OF HEALTH AGENCIES 2.0-3.0
An introductory field course designed to acquaint students with a wide range of school and community health programs and professional specializations in health. Provides a series of field visits and short-term placements under professional supervision. Open to all.
Prerequisites: 5 0837 101, instructor's written permission prior to registration.
- 5 0837 290
HUMAN SEXUALITY 3.0
Provides for the study of human sexuality from the various biological, physiological, sociological, and psychological perspectives, and examines individual and community attitudes concerning sexual behavior. Includes such contemporary issues as abortion, sterilization, homosexuality, artificial insemination and gender selection. Acquaints students with criteria of the social environment which provide their opportunities and constraints.
- 5 0837 300
CURRENT PROBLEMS IN HEALTH 3.0
Seminar-type course providing intensive study of selected contemporary health problems. Identification and interpretation of current health issues from the standpoint of recent scientific and societal developments.
- 5 0837 307
THE STUDY OF HUMAN DISEASES 3.0
Provides a comprehensive study of diseases, their etiology, pathophysiology, diagnosis, prognosis, and treatment. Includes a review of causation theories and incidence patterns and focuses on the major degenerative, neoplastic, metabolic, immunologic, and infectious diseases. Attention is given to prevention and control measures with an emphasis on the role of selected health medical resources in disease management.
- 5 0837 313
HEALTH CONSEQUENCES OF ALCOHOL USE AND ABUSE 3.0
The biological and pharmacological effects of alcohol use and abuse are examined. The health problems associated with abusive alcohol consumption are investigated and current research in this area is reviewed. Theories on the genesis of alcoholism relating to the individual, family and the community are studied.
- 5 0837 314
PUBLIC HEALTH ASPECTS OF ALCOHOL ABUSE 3.0
Examines the impact of alcohol abuse on public health. Society's attempts to diminish the impact are also explored. Includes study of effects of alcohol abuse on the family and workplace; prevention modalities and rehabilitation programs.
- 5 0837 315
COMMUNITY HEALTH 3.0
A basic course focusing on major health problems currently affecting the local, state, national and international scenes and includes consideration of political, social and economic factors. Special attention is directed to the public health organizations and agencies dealing with these health problems.
Prerequisite: Course in similar field.
- 5 0837 330
FOUNDATIONS OF HEALTH EDUCATION 3.0
Provides a comprehensive study of the scientific, social, behavioral, educational and legal foundations of health education. Traces the evolution and interprets the impact of related professions on school, community, and allied health education.
- 5 0837 350
FIELD STUDY IN HEALTH 2.0-6.0
Selected experiences in community health work through arrangements with various kinds of health agencies. Major projects developed under supervision of a faculty member and a qualified person in the health professions agency.
Prerequisites: Instructor's written permission prior to registration, course in similar field.
- 5 0837 401
THE TEACHING OF HEALTH 4.0
Traces historical development of health instruction, examines characteristics of health learners, and compares different types of health education programs. Requires demonstration of health education planning, teaching and evaluation skills.
- 5 0837 404
TESTS AND MEASUREMENTS IN HEALTH EDUCATION 3.0
Statistical procedures and analysis of existing evaluation instruments. Measurements in cognitive, affective and psychomotor domains.
- 5 0837 411
SCHOOL HEALTH AND COMMUNITY SERVICES 3.0
Provides for an in-depth understanding of the school health program and community services. Includes study of (A) school and health services; (B) healthful school environment; and (C) health education and community health services.
- 5 0837 430
HEALTH COUNSELING 3.0
Course will focus on factors influencing health and illness behavior with implications for behavioral intervention in health care. Included are the intervention strategies of prevention, crisis intervention, postvention and compliance, and the intervention techniques of assessment, interviewing, counseling skills and small group dynamics.
- 5 0837 440
HEALTH ASPECTS OF AGING 3.0
This course focuses upon changes in aspects of health during the middle and later years of life. Included would be changes in anatomy and physiology, nutritional requirements, sensoria and those phenomena associated with aging and sexuality. Common causes of morbidity and mortality will be explored as they relate to the aged. Attention will be given to the psychosocial and economic needs of the elderly as well as those aspects of gerontology which deal with legislation and community organization.
- 5 0837 445
PERSPECTIVES ON DEATH 3.0
Exploration of the personal and social meanings of death. Formulation of realistic plans for living, through education about death.
Prerequisites: 5 0837 220 or instructor's permission.
- 5 0837 455
CORE CONCEPTS IN THE DELIVERY OF HEALTH CARE 3.0
Interdisciplinary analysis of the patient care and supporting functions of health practitioners in the provision of health care, emphasizing underlying medical and human services principles and the roles of allied health personnel.
Prerequisites: Six months of occupational experience in an allied health specialty. Course in similar field.
- 5 0837 460
SYSTEMS OF HEALTH SERVICES DELIVERY 3.0
The organization, administration and functions of health services in the United States and other major nations; the social and professional policies which determine their scope and nature. Principal methods currently employed in the U.S. for analysis and evaluation of health care systems. Offers opportunity to students to relate these general understandings to those segments of the health services system of particular professional interest to themselves.
Prerequisite: Course in similar field or instructor's permission.

ETHICS IN HEALTH CARE

3.0

Ethics, as a field of study, has become recognized as a general area of concern for health care practitioners and administrators. Issues in health care ethics will be discussed, with emphasis on their impact on delivery and administration of health care, and the personal ethical dilemmas they impose upon the health care professional. Issues included are general health care ethics, the right to health care, allocation of scarce resources, control of death, and human experimentation.

History

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Richard Barker

The study of history, in addition to being an important part of a broad liberal education, helps to prepare students for careers in teaching, law, government service, politics, journalism and creative writing, library science, business research, and positions with local, state or national archives, museums and historical societies or restorations agencies. The department offers specialized study mainly in American, European and Asian history. History majors may adapt their programs to meet certification requirements for teaching social studies in New Jersey secondary schools. A minor in history is also offered.

History Major

Required Courses

	Semester Hours
2205 200 The Study of History	3
Concentration in American, Asian, European or Latin American History	12-18
History electives in at least two areas other than the concentration. (African Civilization may be included)	12-18
Required Total	33

Teacher Certification (Social Studies)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. The course P 2201 401 Methods of Teaching Social Studies is the departmental requirement.

The social studies teacher is expected to have a broad understanding of the cultural and environmental factors which shape the individual and society. To meet the approved program for certification in social studies, course work is required in each of the following: anthropology, economics, geography, history, political science and sociology. A detailed description of the requirements is available in the office of the school counselor.

Courses of Instruction

P 2201 223

SIMULATION GAMES AND GLOBAL PROBLEMS

3.0

An innovative course utilizing both simulation games and books to inquire into the substantive problems of peace and justice, the ways and means of designing future change, and the uses of simulation techniques as a teaching/learning device.

P 2205 401

METHODS OF TEACHING SOCIAL STUDIES

3.0

Presents recent trends in educational method in teaching the social studies. A program is presented containing the correlation of subject matter organization in socialized recitation, the teaching of current events, projects in citizenship, and the use of the project-problem as a method of teaching history and civics.

P 2205 103

FOUNDATIONS OF WESTERN CIVILIZATION

3.0

Origins and development of western civilization to about 1350. Egyptian, Judaic, Greek, Roman, Islamic and Medieval European contributions.

P 2205 105

EMERGENCE OF EUROPEAN CIVILIZATION, 1500-1914

3.0

The emergence of Europe as a distinctive world civilization. The development of ideas, institutions and technologies from medieval times to World War I.

P 2205 106

CONTEMPORARY EUROPE, 1914 TO THE PRESENT

3.0

European society in transition since World War I. The role of two world wars in shaping contemporary times.

P 2205 108

INTRODUCTION TO AFRICAN CIVILIZATION

3.0

Pre-colonial African civilization and its eclipse under slavery and the colonial onslaught. Principal social, political and environmental systems of the period.

P 2205 110

INTRODUCTION TO AMERICAN CIVILIZATION

3.0

The mainstreams of development in American civilization. Political, intellectual, social, economic and cultural forces and achievements which have made us distinctive.

P 2205 111

CONTEMPORARY AMERICAN ISSUES IN HISTORICAL PERSPECTIVE

3.0

Examines contemporary issues in American society in historical perspective. Topics will vary from semester to semester in the light of changing problems confronting our society.

P 2205 114

EARLY LATIN AMERICAN CIVILIZATION

3.0

The components of Latin American civilization. Considered are the geographical background and developments of the Mayan, Incan, and Aztec civilizations, the Spanish and Portuguese backgrounds and the wars of independence.

P 2205 115

HISTORY OF PUERTO RICO

3.0

The history and culture of Puerto Rico and interaction with Spain, Latin America and the United States.

P 2205 116

MODERN LATIN-AMERICAN CIVILIZATION

3.0

Major themes in Latin American history during the 19th and 20th centuries, with emphasis on the struggle for freedom, equality, and economic independence.

- P 2205 131
INTRODUCTION TO INDIAN CIVILIZATION 3.0
The early history of India, 3000 B.C. to 1000 A.D. Principal religions, political and literary works, and their insights into Indian social values and institutions.
- P 2205 132
INTRODUCTION TO CHINESE CIVILIZATION 3.0
The early history of China, 2000 B.C. to 1300 A.D. Principal social, political and meta-physical-philosophic works, corresponding values and institutions.
- P 2205 133
MODERN CHINESE CIVILIZATION 3.0
Modern China and Japan, 1600 to the present. Changes in values and mutual influence of East and West, studied through literary, philosophical, anthropological, historical and artistic works.
- P 2205 200
THE STUDY OF HISTORY 3.0
The nature of historical research and reasoning. Student experience in working with actual historical materials and procedures.
- P 2205 204
THE SECOND WORLD WAR 3.0
A study of the origins and course of World War II in Europe, Asia and the Pacific.
- P 2205 210
SELECTED TOPICS IN AMERICAN HISTORY TO 1876 3.0
Issues and problems in the development of the American nation from discovery and exploration to the Civil War and Reconstruction.
- P 2205 211
SELECTED TOPICS IN AMERICAN HISTORY SINCE 1876 3.0
Issues and problems in the development of the American nation from the Civil War to the present.
- P 2205 212
SOCIAL HISTORY OF THE UNITED STATES 3.0
Social and cultural aspects of American history. Population movements, rural and urban problems, status of women. Utopian ventures, mass media, recreation, human rights.
- P 2205 213
ECONOMIC HISTORY OF THE UNITED STATES 3.0
Major trends in agriculture, commerce, finance, manufacturing, transportation and industrial relations from colonial beginnings to the present. Also listed under Economics as C 2204 213.
Prerequisites: C 2204 101, C 2204 102 or C 2204 200.
- P 2205 214
DIPLOMATIC HISTORY OF THE UNITED STATES 3.0
Evolution of American foreign policy and diplomacy from the Revolution to the present. Selected basic readings in the field.
- P 2205 215
WOMEN IN AMERICAN HISTORY 3.0
The changing role and status of women in American society from colonial times to the present.
- P 2205 216
HISTORY OF THE AMERICAN FAMILY 3.0
Studies the history of the American family as a dynamic social institution. The course will focus on the changing role of the family in America; the varieties of family structures in past times, and the significance of the family in American cultural and social history.
- P 2205 217
HISTORY OF BLACK AMERICANS 3.0
Role of Americans of African descent in the development of the United States. Contributions of black Americans from initial discovery and exploration to mid-20th century.
- P 2205 218
POLITICAL HISTORY OF THE UNITED STATES 3.0
The historical development of American political institutions from the early 1700's to the present. Focus upon the evolution of constitutional and legal structures, the party system and pressure groups, the role of bureaucracies, and the impact of political leaders.
- P 2205 219
SPORT IN HISTORY 3.0
This course takes a global approach to the history of sport, but focuses on the role of sport in American history. It examines sport in early world cultures, the development of sport as a mass spectator phenomenon in modern times, and the social significance of sport in the contemporary world.
- P 2205 223
COMMUNIST REVOLUTION IN CHINA 3.0
Ideological and historical significance studied against the background of domestic and international events, personalities and ideologies.
- P 2205 231
NEW JERSEY PAST AND PRESENT 3.0
A survey of New Jersey history emphasizing (1) the state's political, economic, and social heritage and evolution, and (2) New Jersey's role in the development of the United States.
- P 2205 281
GREEK CIVILIZATION 3.0
The political, social, economic, and cultural history of the Greek world from the Bronze Age to the Roman conquest as seen through literary, documentary, and archaeological sources. Also listed under Classics as K 4903 281.
- P 2205 282
ROMAN CIVILIZATION 3.0
The political, social, economic, and cultural history of the Roman world from the Regal Period to Justinian as seen through literary, documentary, and archaeological sources. Also listed under Classics as K 4903 282.
- P 2205 309
FEMINIST IDEAS IN WESTERN THOUGHT 3.0
History of feminist ideas and theories about women and womanhood. Students examine important theoretical literature in Europe and America from 18th century to present. Original texts of Wollstonecroft, Fuller, Mill, and Freud will be considered against their socio-historic milieu.
- P 2205 311
EARLY HISTORY OF NEW JERSEY 1702-89 3.0
From royal colony to the establishment of the federal government under the constitution; state and local events during the American Revolution.
- P 2205 312
HISTORICAL GEOGRAPHY OF THE UNITED STATES 3.0
The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800. The rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1809. Also listed under Environmental, Urban and Geographic Studies as N 2206 312.
- P 2205 313
BIOGRAPHY IN AMERICAN HISTORY 3.0
The significant biographical materials available in the study of American history. The problems and uses of biography.

- P 2205 315
WAR IN HISTORY 3.0
Examines selected wars in the history of the world in an attempt to learn about causes and consequences of war. Considers attempts to prevent war in the past, and proposed methods for preventing war in the future.
- P 2205 320
AMERICAN URBAN HISTORY SINCE 1880 3.0
Transformation of the 19th century industrial city into the 20th century metropolis. The emergence of the New York metropolitan region.
Prerequisite: P 2205 211 or equivalent background.
- P 2205 321
HISTORY OF THE AMERICAN WORKER SINCE 1877 3.0
History of the American worker rather than his trade union. The worker's legal status, political behavior, social and cultural activities, treatment by employer and state.
- P 2205 322
MEDIEVAL EUROPEAN CIVILIZATION 450-1350 3.0
Origins, development and significance of a civilization whose political, social and cultural foundations had a spiritual basis and unity.
- P 2205 323
HISTORY OF RUSSIA TO 1917 3.0
Factors shaping the Russian people: Byzantium and Greek Orthodox faith, tartar state organization, the Mir, westernization from Peter to Lenin, intellectual and radical movements.
- P 2205 324
RUSSIA SINCE 1917 3.0
Political, social, economic and intellectual developments in the Soviet Union. The relationship of ideology and national goals.
- P 2205 328
CONFLICT IN MODERN IRELAND 3.0
A history of Irish nationalism with emphasis on the period from 1782 to the present.
- P 2205 329
HISTORY OF ENGLAND TO 1714 3.0
Emphasis on political and constitutional history, the formation of basic institutions of law and government and related economic, social and cultural factors.
- P 2205 331
HISTORY OF ENGLAND 1714-1914 3.0
Political, social and economic history from the Hanoverian succession to the 20th century. Industrial Revolution, changing balance of the constitution, British imperialism, the Irish question.
- P 2205 332
REVOLUTIONS IN LATIN AMERICAN HISTORY 3.0
Examines and compares the causes, course and consequences of three major social revolutions in Latin America: Mexico (1910), Bolivia (1952), Cuba (1959).
- P 2205 333
HISTORY OF BRAZIL 3.0
Traces the historical development from the pre-historical Indian cultures to the 1970's. Covers the social, cultural, political, economic and religious aspects of the largest Latin-American nation.
- P 2205 343
RESEARCH TECHNIQUES-AMERICAN HISTORY 3.0
This course is proposed for the three week January innovative instruction period as provided in the college calendar. The aim is to utilize this period for instruction of history majors in the techniques and problems of research with primary sources. Also, to familiarize them with the sources of American history in the depositories.
Prerequisite: Open only to history majors. Limited enrollment of 12 students.
- P 2205 408
INDEPENDENT STUDY EUROPEAN HISTORY 3.0
To provide opportunity for students, mainly history majors, to do independent work in the field.
- P 2205 409
INDEPENDENT STUDY NON-WESTERN HISTORY 3.0
To provide opportunity for students, mainly in history or transcultural studies, to do independent work in the field.
- P 2205 410
INDEPENDENT STUDY IN AMERICAN HISTORY 3.0
To provide an opportunity to do independent work in the field.
- P 2205 411
INTELLECTUAL HISTORY OF THE UNITED STATES 3.0
Development and contributions of the thought of individuals and groups, dominant and minority, and their effect on the American mind, traditions and practices.
- P 2205 416
CHURCH AND STATE IN LATIN AMERICA 3.0
The Roman Catholic Church as the major spiritual institution as well as a cultural, moral, political and economic force in Latin America.
- P 2205 419
AGE OF RENAISSANCE, 1350-1517 3.0
Political, economic, social and broad cultural developments in Italy and western Europe during 1350-1517.
- P 2205 425
IDEAS IN EUROPEAN HISTORY: BURKE TO NIETZSCHE 3.0
Conservative, liberal, romantic, utilitarian and early existential streams of thought in 19th century Europe. Readings in Burke, Bentham, Mill, Hegel, Nietzsche and others, with attention to historical background.
Prerequisite: P 2205 106 or equivalent background.
- P 2205 426
THE NAZI THIRD REICH 3.0
Major economic, social, political and intellectual developments in 20th century Germany. Demise of Weimar Republic and ascension of Nazi Third Reich.
Prerequisites: P 2205 106 or equivalent background.
- P 2205 431
DEVELOPMENT OF INDIAN CHARACTER AND CULTURE 3.0
The historical conditioning of Indian behavior. Culture change in the perspective of colonialism and modernization. Contributions of religion to social and political values and modern literature.
Prerequisite: P 2205 131.
- P 2205 432
DEVELOPMENT OF JAPANESE CHARACTER AND CULTURE 3.0
The historical conditioning of Japanese behavior. Cultural change in the perspective of traditional periodization of Japanese history. Contribution of religion and philosophy to defining social values. Also listed under Anthropology as J 2202 432.
- P 2205 433
AMERICAN COLONIAL HISTORY 1607-1763 3.0
Developments within the English colonies, interactions between English and the colonists, growth of a distinctive American society.

P 2205 434
AMERICAN REVOLUTION AND EARLY REPUBLIC 3.0
 1763-1828
 Analysis of events leading to the war for independence. Political, economic and foreign problems of the new nation and growth of nationalism.

P 2205 435
THE UNION IN CRISIS 1820-1877 3.0
 Significant events and developments of the period, Jacksonian Democracy, westward expansion and sectionalism, the Civil War and reconstruction.

P 2205 436
AMERICA IN THE GILDED AGE 3.0
 The forces which contributed to the development of modern, industrialized America. American society and its reaction to changes of the period.

P 2205 437
AMERICAN SOCIETY IN 20TH CENTURY 3.0
 The continuing reactions to the problems of an industrialized America. The New Deal and recent supreme court decisions.

P 2205 438
AMERICA IN THE SIXTIES: THE CRISIS OF CONSENSUS LIBERALISM 3.0
 Analyzes the crisis of American liberalism as that ideology was beset by the consequences of postwar affluence and the growing radicalism during the Kennedy-Johnson administration; and the backlash that developed into the Nixon "New Majority."

P 2205 443
INTERNSHIP IN HISTORY 3.0
 Opportunity for the advanced student to acquire practical experience working directly with primary sources of history in state and local depositories of historical materials.
Prerequisites: 21 semester hours prior course work in history and permission of program coordinator.

P 2205 461
CULTURAL HISTORY OF PRIMITIVE SOCIETIES 3.0
 Interdisciplinary approach to the aims, methods and techniques of ethnohistorical research. Sources of data include both documentary and non-documentary evidence in reconstructing the culture history of pre-literate or semi-literate societies. Also listed under Anthropology as J 2202 461.
Prerequisite: J 2202 100 or P 2205 200.



Home Economics

SCHOOL OF PROFESSIONAL STUDIES

Chairperson: Karen Todd

Home Economics is concerned with the study of individuals and families, their environments, needs, problems and futures. The department offers six specializations which synthesize, interrelate, and integrate knowledge from other disciplines toward understanding and finding solutions to concerns of individuals and families.

A Bachelor of Science degree is offered in Food and Nutrition and Foodservice Management; the Bachelor of Arts degree is offered in Consumer Affairs, Family and Child Studies, Fashion Studies, and Home Economics Education. Students may prepare to teach, work with businesses, agencies, government programs, other institutions and/or pursue graduate study. Courses are open as electives for those majoring in other fields of study.

Montclair State College's home economics unit is accredited by the Council for Professional Development of the American Home Economics Association.

Home Economics Major

Required Courses (All Concentrations)

	Semester Hours
1301 100 Professional Orientation	2
1301 304 Introduction to Research	3
1301 400 Senior Seminar	1
1304 270 Individual Management: Theories and Strategies	3

Concentration Programs Within the Major

Consumer Affairs

Required Courses

	Semester Hours
1301 409 Internship in Home Economics	8-12
1304 335 Consumers in the Market	3
1304 435 Consumer Action	3
1304 470 Family Management	3
1305 140 Family in Society	3
1305 445 The Inner City Family	3

12 semester hours in one of these areas: Consumer Services, or Food, Nutrition, Foodservice Management; or Housing, Interior Design, Household Equipment.

Collateral Courses

0509 340 Introduction to Marketing	3
1506 234 Fundamentals of Public Speaking	3
1509 102 Ethics	3
2001 101 General Psychology I	3
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3
History course OR	
2202 100 Cultural Anthropology	3
Political Science course	3

Electives (General)

Select 38 semester hours from the appropriate list to be obtained from the department 38

Family and Child Studies

Required Courses

1301 141	Interpersonal Relations	3
1301 448	Family Counseling	3
1303 122	Clothing and Culture OR	
1303 221	Fabrics for the Consumer	3
1304 231	The Family in the Economic System OR	
1304 331	Money Management	3
1304 470	Family Management	3
1305 140	Family in Society	3
1305 214	Child Development I	3
1305 314	Child Development II*	3
1305 315	Field Experiences in Family and Child Services	3
1305 342	Family Sociology	3
1305 445	The Inner City Family	3
1306 153	Food and People*	3
1306 182	Nutrition	3

Collateral Courses

2001 101	General Psychology I	3
2001 201	Child Psychology	3
	Anthropology or Sociology	3

Electives

Select electives from the appropriate list supplied by department 22

**Not required of N/K certification students.*

Nursery/Kindergarten Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. 0830 400 Foundations of Reading Instruction substitutes for 0830 407 Developmental Reading Principles and Techniques I. In addition, the following courses must be taken:

1305 319	Language and Literature for Young Children	3
1305 416	Creative Experiences I: Expressive Media	3
1305 417	Creative Experiences II: Cognitive Development	3
1305 420	Program Planning in Early Childhood Education	3

Fashion Studies

Required Courses

	Semester Hours
1301 408	Workshop in Home Economics: Merchandising Fashion 3
1301 409	Internship in Home Economics 8
1302 265	Interior Design 3
1303 122	Clothing and Culture 3
1303 220	Textile and Apparel Industry 3
1303 298	Textiles I: Introduction 3
1303 320	Historical Analysis of Fashion 3
1304 435	Consumer Action 3

Collateral Courses

0506 311	Management Process & Organizational Behavior	4
0509 340	Introduction to Marketing	3
1001 101	Design Foundations of Visual Organization I	3
1003 105	Art and Civilization I	3
1905 100	Introductory Chemistry	3
2001 102	General Psychology I	3
2202 100	Cultural Anthropology	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3
	Studio Art course	3

General Education

French, Spanish or Italian to fulfill foreign language requirement 6

Electives

Select 19 semester hours from the appropriate list to be obtained from the department 19

Food and Nutrition

Required Courses

		Semester Hours
1304 470	Family Management	3
1305 140	Family in Society	3
1305 445	The Inner City Family	3
1306 150	Principles of Food Preparation	3
1306 153	Food and People	3
1306 182	Nutrition	3
1306 255	Meal Management	3

Collateral Courses

1905 107	College Chemistry I	2
1905 109	College Chemistry Lab I	1
1905 130	Fundamentals of Organic Chemistry	4

Electives

Select 26 semester hours from the appropriate list to be obtained from the department 26

American Dietetics Association

In addition to taking course requirements listed for the Home Economics major and the Food and Nutrition concentration, a student who wishes to fulfill the minimum requirements for professional training of the American Dietetic Association should contact the department for current requirements.

Foodservice Management

Required Courses

	Semester Hour
1301 409	Internship in Home Economics
1306 150	Principles of Food Preparation
1306 153	Food and People
1306 182	Nutrition
1307 252	Quantity Food Purchase and Production Lab
1307 253	Quantity Food Purchasing and Production
1307 254	Foodservice Equipment and Facility Design
1307 352	Organization and Management of Foodservice Systems
1307 353	Specialized Food Production

Collateral Courses

0401 242	Human Biology	
0401 254	Applied Microbiology	
0501 261	Legal Environments of Business I	
0502 200	Accounting for Non-Business Majors	
0506 316	Human Resource Management OR	
2001 240	Industrial and Organizational Psychology	
0506 311	Management Process & Organizational Behavior	
0509 340	Introduction to Marketing	
0701 108	Computers and Programming	
1905 107	College Chemistry I	
1905 109	College Chemistry Laboratory I	
1905 130	Fundamentals of Organic Chemistry	
2001 101	General Psychology I	
2204 101	Principles of Economics: Macro	
2204 102	Principles of Economics: Micro	

Electives

Select 9-10 semester hours from the appropriate list to be obtained from the department 9-10

Home Economics Education

Required Courses

	Semester Hours
0893 201 Introduction to Home Economics Education	3
1301 141 Interpersonal Relations	3
1302 160 Equipment in the Home	3
1302 260 Housing and Society	3
1303 120 Clothing Construction	3
1303 122 Clothing and Culture	3
1303 298 Textiles I: Introduction	3
1304 435 Consumer Action	3
1304 470 Family Management	3
1305 140 Family in Society OR	
1305 248 Family Relations	3
1305 214 Child Development I	3
1306 150 Principles of Food Preparation	3
1306 182 Nutrition	3
1306 255 Meal Management	3
Home Economics Elective	3

Collateral Courses

2001 101 General Psychology I	3
2204 101 Principles of Economics: Macro	3
Anthropology or Sociology	3

Home Economics Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the Department of Curriculum and Teaching. In addition, the course 0893 309 Teaching of Home Economics must be taken.

Courses of Instruction

60893 201
INTRODUCTION TO HOME ECONOMICS EDUCATION 3.0
Exploration of the roles of home economics educators; home economics programs; teaching environments; curriculum design and methodology. Field trips to a variety of programs followed by analysis.

60893 302
NUTRITION EDUCATION TECHNIQUES 3.0
Procedures and techniques for developing programs and teaching nutrition to a variety of target populations. Individual and group methods emphasize innovation.
Prerequisite: 6 1306 182.

50893 309
TEACHING OF HOME ECONOMICS 3.0
Curriculum development. Materials and teaching strategies appropriate to home economics. 1 0829 410 Intermediate Experience in Education must be taken concurrently. To be taken semester prior to student teaching.

50893 403
CONSUMER EDUCATION TECHNIQUES 3.0
Curriculum development, teaching strategies, resources and materials related to teaching consumer education.
Prerequisite: 6 1304 435.

6 1301 100
PROFESSIONAL ORIENTATION 2.0
Orientation to the philosophy of the profession. Field experiences with home economists in a variety of settings to provide exposure to the breadth of professional opportunities.

6 1301 141
INTERPERSONAL RELATIONS 3.0
Relevant and up-to-date information about meaningful human relationships throughout the life cycle.

6 1301 205
WOMEN IN CONTEMPORARY SOCIETY 3.0
Discussion of current concerns and role options available to today's women, and of those historical developments and social forces which have shaped the status of women in America.

6 1301 304
INTRODUCTION TO RESEARCH 3.0
Provides awareness of the contributions of research to the advancement of human welfare. Developing skills for intelligent pursuit and consumption of research. Not open to freshmen.

6 1301 308
INDEPENDENT STUDY 1.0-3.0
Advanced areas of home economics not offered in the regular curriculum.
Prerequisite: Junior or senior standing.

6 1301 344
CHALLENGE OF AGING 3.0
The change over the adult life span as it affects family interaction and resources in various sub-cultures. Implications for social policy and institutions relative to an increasing aging population. Field participation with agencies and elders; minimum 6 hours contact.

6 1301 400
SENIOR SEMINAR 1.0
The role of professional home economists in meeting contemporary societal needs. Problems of entry into the field. Majors only.
Prerequisite: Senior standing.

6 1301 408
WORKSHOP IN HOME ECONOMICS 1.0-3.0
Opportunity to study selected current problems in the field of home economics.

6 1301 409
INTERNSHIP IN HOME ECONOMICS 8.0-12.0
Opportunity to work as an intern with a professional home economist in business, a community agency or an organization.
Prerequisite: Senior standing, admission to program. Application available in Home Economics Department.

6 1301 448
FAMILY COUNSELING 3.0
Techniques and theories of collecting data and counseling families with such problems as money management, nutrition concerns, parent-child relationships and value conflicts.
Prerequisites: 30 semester hours in Home Economics, junior or senior standing.

6 1302 160
EQUIPMENT IN THE HOME 3.0
Principles and resources involved in the selection, use and care of equipment in the home.

6 1302 260
HOUSING AND SOCIETY 3.0
Housing needs of today's families from an economic, social and psychological premise. Organization of living space; selection and use of materials to meet the needs of the family throughout the life cycle.

- 6 1302 265
INTERIOR DESIGN 3.0
 Selection, organization and evaluation of furnishing for the residential environment. Principles and elements of design studied in relation to interior residential space.
- 6 1303 120
CLOTHING CONSTRUCTION 3.0
 Theory and techniques for achieving well-fitted apparel; basic concepts, competences and technologies using appropriate fabrics and commercial patterns.
- 6 1303 122
CLOTHING AND CULTURE: A MULTIDISCIPLINARY STUDY 3.0
 Analysis of dress in terms of cultural, social, psychological, historic and economic influences. Clothing choices related to individual concerns, including esthetic, physical and ecological factors.
- 6 1303 220
TEXTILE AND APPAREL INDUSTRY 3.0
 In-depth study of factors which spur progress, affect supply, demand, and ultimately the consumer. History, economic structure and patterns of production, distribution and marketing of textile and clothing industries.
- 6 1303 221
CONSUMER PROBLEMS IN TEXTILES 3.0
 Consumer preferences and responsibilities in the selection of textiles for individual and families is stressed. Information on fibers, construction, processes and quality control is studied.
- 6 1303 226
ADVANCED CLOTHING CONSTRUCTION 3.0
 A conceptual approach to problems in custom dressmaking; fabric characteristics; selection of appropriate construction techniques; suitability of fashion to the individual.
Prerequisite: 6 1303 120 or equivalent.
- 6 1303 298
TEXTILES I: INTRODUCTION 3.0
 Intensive study of fibers, yarn, fabric constructions, and finishes related to consumer concerns for use, durability, care, and cost. For students with a professional interest in textiles and clothing.
- 6 1303 320
HISTORICAL ANALYSIS OF COSTUME 3.0
 The development of clothing; clothing usage in terms of social, economic and aesthetic backgrounds. Not open to freshmen.
- 6 1303 322
FIELD VISITS TO CLOTHING AND TEXTILES FIRMS 1.0
 Opportunity to observe systems of manufacture, distribution and marketing of textile merchandise.
Prerequisite: instructor's permission.
- 6 1303 398
TEXTILES II: PRODUCTION AND PERFORMANCE 3.0
 Basic information is used in the study of fabric production. Development and implementation of textile standards impact of socio-economic forces, trends in merchandising, and consumership are discussed. Field experiences included.
Prerequisite: 1303 298, or instructor's permission.
- 6 1303 422
APPAREL DESIGN: DRAPING 3.0
 Design principles and fabric properties; figure types; fashion interest. Draping fabric on a three-dimensional body and form for interpretation of design.
Prerequisite: 6 1303 120, or instructor's permission.
- 6 1303 424
TAILORING 3.0
 The concepts, procedures and skills of custom tailoring; techniques of fine as well as speed processes; comparing and evaluating custom and factory-made garments.
Prerequisite: 6 1303 120, or instructor's permission.
- 6 1303 426
APPAREL DESIGN: FLAT PATTERN 3.0
 Flat pattern design in developing original designs for apparel. Basic pattern used to execute designs related to the use of fabric on a human form.
Prerequisite: 6 1303 120, or instructor's permission.
- 6 1304 231
THE FAMILY IN THE ECONOMIC SYSTEM 3.0
 The family as an economic unit in society. Economic behavior of various sub-cultures, age groups and family patterns.
- 6 1304 270
INDIVIDUAL MANAGEMENT: THEORIES AND STRATEGIES 3.0
 Opportunity to investigate management theories and apply them to personal life. Influences on, and blocks to, personal management, problem solving, planning, and expediting.
- 6 1304 331
MONEY MANAGEMENT 3.0
 The role and meaning of money in individual and family living. Income as a means of acquiring a style of life. The effective control of income in spending, saving, credit purchases and providing for future needs. No freshmen.
- 6 1304 335
CONSUMERS IN THE MARKET 3.0
 The consumer perspective of the marketplace. Emphasis on developing research skills and understanding laws, regulations and agencies that affect the consumer. Not open to freshmen.
- 6 1304 435
CONSUMER ACTION 3.0
 The marketplace as a social, psychological and economic institution serving families. Emphasis on advertising, selling practices, pricing strategies, trends and current issues which affect the quality of goods and services.
Prerequisites: C 2204 101 or 102.
- 6 1304 470
FAMILY MANAGEMENT 3.0
 Opportunity to analyze situations in which individuals and families use resources to maintain daily life and solve problems. Roles, goals, decision making, use of human and non-human resources and factors influencing household management.
Prerequisite: 6 1304 270.
- 6 1305 140
FAMILY IN SOCIETY 3.0
 Provides basic insights and concepts from the social sciences to study the history and structure of the family as a basic but changing institution in modern America.
- 6 1305 214
CHILD DEVELOPMENT I 3.0
 The pre-school child (2-5 years). The major challenges confronting the developing child as he/she masters the task of socialization. Supervised observation and participation with groups of preschool children for 2 hours per week, each week of the semester.
Prerequisite: T 2001 101.

- 6 1305 215
INFANT DEVELOPMENT 3.0
 The infant as a developing individual within the family. Theory and research in the area of human infancy. Physical, cognitive and emotional growth from pre-natal through the first two years of life.
- 6 1305 248
FAMILY RELATIONS 3.0
 The family life cycle. Courtship, adjustment in marriage, pregnancy, child rearing. Later stages of parenthood and old age.
- 6 1305 314
CHILD DEVELOPMENT II 3.0
 The growth and development of the school-aged child (6-18). Examination of peers and family interactions, as well as the institutions of society as they influence the developing child/adolescent. Assigned activities with adolescents with 15 hours of field participation.
Prerequisite: 6 1305 214.
- 6 1305 315
FIELD EXPERIENCES IN FAMILY AND CHILD SERVICES 3.0
 Planned supervised experience with selected agencies offering services for families and children. 35 hours of field work required.
Prerequisites: Completion of 30 hours of Family and Child Studies program.
- 6 1305 319
LANGUAGE AND LITERATURE FOR YOUNG CHILDREN 3.0
 The qualities of children's expression through language, books, stories and poems. Criteria for evaluating material for the pre-school program. No freshmen.
- 6 1305 320
PARENTING SKILLS AND RESOURCES 3.0
 Opportunity to develop effective parenting skills and knowledge of human development needed for application of these skills. Impact of parenting resources on both parents and non-parents. Local, state and national resources examined. Assigned activities with children.
- 6 1305 342
FAMILY SOCIOLOGY 3.0
 Familiarizes students with data relating to the family as an institution, its development, dynamics and place in society. The impact of rapid social change on the American family. Not open to freshmen.
- 6 1305 414
ORGANIZATION AND MANAGEMENT OF CHILD CARE CENTERS 3.0
 Basic principles of supervision and administration applied to developing a sound program in a modern pre-school program. The learning process applied to the professional development of staff. Organization and administration of individual classrooms and the total school program; and the relationship of the school to community services and agencies.
Prerequisite: 6 1305 214, junior/senior standing.
- 6 1305 416
CREATIVE EXPERIENCES I: EXPRESSIVE MEDIA 3.0
 Curriculum experiences designed to nurture young children's self-expression and creativity in areas of art, music, dramatic play, woodworking and block play.
Prerequisites: 6 1305 214, majors only, junior/senior standing.
- 6 1305 417
CREATIVE EXPERIENCES II: COGNITIVE DEVELOPMENT 3.0
 Provides an opportunity for students preparing to teach young children to have workshop experiences related to the physical and social world. Appropriate curriculum materials and activities in the areas of science, math and social studies will be discussed and presented.
Prerequisite: 6 1305 416, majors only.
- 6 1305 418
STRATEGIES FOR WORKING WITH PARENTS 3.0
 Establishing a positive team approach between the parent and teacher. Parent-teacher interaction. How the teacher interprets parental anxieties, and conducts individual conferences and group meetings.
Prerequisite: 6 1305 214.
- 6 1305 420
PROGRAM PLANNING IN EARLY CHILDHOOD EDUCATION 3.0
 Principles of curriculum development for programs for pre-school children. Taken the semester prior to student teaching and concurrently with 1 0829 410 Intermediate Experience in Education.
- 6 1305 445
THE INNER CITY FAMILY 3.0
 Sub-cultures residing in large cities. The impact of urbanization, ethnicity, social and economic institutions. Problems which families encounter. Community contact is part of the course.
Prerequisite: Junior/senior standing.
- 6 1306 150
PRINCIPLES OF FOOD PREPARATION 3.0
 Principles of basic food science involved in preparation of standard food products. Food selection and purchasing.
- 6 1306 153
FOOD AND PEOPLE 3.0
 Discussion of diverse factors which influence food selection in various cultures. World food patterns, nutritional significance of a changing food supply.
- 6 1306 182
NUTRITION 3.0
 The nutrients in food, their functions in the human body, and diet requirements for people in various age groups.
- 6 1306 255
MEAL MANAGEMENT 3.0
 Food preparation, nutrition and management in planning, preparing and serving family meals to utilize the resources available.
Prerequisites: 6 1306 150, 182.
- 6 1306 282
COMMUNITY NUTRITION 3.0
 The application of basic nutritional knowledge to individuals and community agencies. Assessing and planning educational programs to correct nutrition problems. Field studies and group projects.
Prerequisite: 6 1306 182.
- 6 1306 357
EXPERIMENTAL FOODS 3.0
 Scientific principles underlying food preparation. Laboratory experiments illustrate the effect of varying ingredients and preparation procedures on the quality of food products.
Prerequisites: X 1905 130, 6 1306 150.
- 6 1306 382
ADVANCED NUTRITION 3.0
 The physiological and chemical bases for nutrient needs, mechanisms through which nutrients meet the biological needs of man. Evaluation and interpretation of research findings.
Prerequisites: 6 1306 182, W 0401 243, X 1905 270.
- 6 1306 456
RESEARCH IN FOODS 3.0
 Scientific method in the design and execution of experimental food studies and in the interpretation and evaluation of results. Independent laboratory research.
Prerequisites: 6 1306 357

6 1306 488
DIET THERAPY 4.0
The application of basic nutritional principles and diet to the treatment of diseases and conditions other than normal.
Prerequisites: 6 1306 382.

6 1306 489
EXTERNSHIP IN FOOD AND NUTRITION 3.0
A supervised experience in selected quantity food services, agencies, clinics or organizations involved in foods and nutrition problems of the community.
Prerequisites: 6 1306 382, 6 1307 253, instructor's permission.

6 1307 252
QUANTITY FOOD PURCHASING AND PRODUCTION LABORATORY 2.0
Laboratory experiences to support basic concepts of quantity food purchasing and production. Laboratory assignments off campus in functioning foodservice facilities.
Prerequisites: 6 1306 150, 182.
Corequisite: 6 1307 253.

6 1307 253
QUANTITY FOOD PURCHASING AND PRODUCTION 3.0
Determining needs, purchasing, storing, preparing and serving food in large volume.
Prerequisites: 6 1306 150, 182.
Corequisite: 6 1307 252.

6 1307 254
FOODSERVICE EQUIPMENT AND FACILITIES DESIGN 3.0
Selection of equipment based on needs of the foodservice system. Purchasing procedures.
Prerequisite: 6 1307 253.

6 1307 352
ORGANIZATION AND MANAGEMENT OF FOODSERVICE SYSTEMS 3.0
Principles of management, organizational structure, policy and decision-making. The menu in management, budgeting and cost control, sanitation and safety, personnel policies and management.
Prerequisites: 6 1307 253, E 0506 311.

6 1307 353
SPECIALIZED FOOD PRODUCTION 3.0
Opportunity to study selected problems in food production in various types of food service operation. Menu planning and production for special events; terminology and techniques utilized in specialized areas of food production. Laboratory experience is included.
Prerequisites: 6 1307 253, 254, 352.

Industrial Studies

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: George A. Olsen

An interest in design; graphic communication, mechanical drawing or architectural drafting; graphic arts; wood, metal or plastics technology; electricity or electronics; energy and power, alternate energy technology, or automotive technology; or jewelry should lead the student to the department of Industrial Studies. The Bachelor of Science degree can be earned in order to prepare for a career in Industrial Supervision/Management or Teaching.

Industrial Education and Technology Major

Required Courses

	Semester Hours
0990 101 Introduction to Industry, Education and Technology . . .	1
0839 101 Technology and Culture: Past, Present and Future . . .	3
0990 210 Design Fundamentals and Problem Solving	3
0990 220 Industrial Drafting Practices	3
0990 230 Graphic Arts	3
0990 240 Foundations of Industry – Wood	3
0990 250 Industrial Plastics	3
0990 260 Metalworking Practices	3
0990 270 Electricity Fundamentals	3
0990 280 Energy and Power	3

Advanced Specialization

Select 22 semester hours of 300 and 400 level courses from within the department offerings (0990) in consultation with program advisor.

Concentration Program Within the Major

Industrial Studies

Required Courses

	Semester Hours
0990 461 Management and Production	3
0506 311 Management Process and Organizational Behavior . . .	4
0509 340 Introduction to Marketing	3
0991 409 Cooperative Industrial Internship	8
Select 9 semester hours from the following:	
2001 240 Industrial and Organizational Psychology	3
0506 316 Human Resource Management	3
0502 200 Accounting for Non-Business Majors	3
0506 431 Middle and First Line Management	3
0509 342 Managing the Sales Function	3
0701 108 Computers and Programming	3
(It is required that the student consult with the program advisor for course selection.)	

Electives (General) 6

Teacher Education Professional Sequence

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Special Program Requirements

Vocational-Technical Teacher Education Program

This is a non-degree program that offers courses and guidance for students who want certification to teach vocational-technical subjects in secondary schools. Candidates must have a high school diploma or equivalency, experience in a trade, industrial occupation, or profession they would like to teach, and approved training in the field. General background courses, professional education and supervised in-service teaching are all included. For further information, call the department.

Courses of Instruction

70839 101
TECHNOLOGY AND CULTURE: PAST, PRESENT AND FUTURE 3.0
A chronological study of technology and its impact on world culture. Emphasis will be placed on the influence of the western hemisphere during the last 300 years and the world of the future.

70839 302
PRINCIPLES AND METHODS OF TEACHING INDUSTRIAL EDUCATION 3.0
Professional preparation for student teaching. Emphasis on planning courses of study, lesson plans, behavioral objectives, methodology and evaluation.

70839 408
IN-SERVICE SUPERVISED TEACHING SEMINAR 8.0
For full-time regularly-employed teacher who has all degree requirements except student teaching. Prior registration required.

70990 101
INTRODUCTION TO INDUSTRY, EDUCATION AND TECHNOLOGY 1.0
A professional orientation and exposure to all professional aspects of industry, education and technology designed to give students insight into the breadth of opportunities within the field.

70990 208
SURVEY OF MODERN INDUSTRY 3.0
Visitation of representative industry to study and evaluate management, labor, materials, processes and products of industry.

70990 210
DESIGN FUNDAMENTALS AND PROBLEM SOLVING 3.0
Creativity, brainstorming, problem solving and analysis—consideration application to practical problems in designing with materials.

70990 220
INDUSTRIAL DRAFTING PRACTICES 3.0
All aspects of graphic communication are surveyed with particular emphasis on its role in the industrial and business world.

70990 230
GRAPHIC ARTS 3.0
Major printing processes, use of type, composition, proofing, composition, platen press, screen process and basic lithography.

70990 240
FOUNDATIONS OF INDUSTRY – WOOD 3.0
An overview of the wood product industries with emphasis on the study of the lumber industry, standard hand tool and common machine operation, as well as basic finishing processes.

70990 250
INDUSTRIAL PLASTICS 3.0
Industrial plastic industry, its operations and materials, principles, concepts, machine processing, material selection and equipment use and safety.

70990 260
INDUSTRIAL METAL WORKING PRACTICES 3.0
An introductory study of concepts and processes involving metallic materials supplemented by related laboratory experiences.

70990 270
ELECTRICITY FUNDAMENTALS 3.0
Basic concepts of electricity and their application in the world.

70990 280
ENERGY AND POWER 3.0
A study of all sources of energy and their various power conversion systems. Exploration through direct laboratory experience.

70990 284
ALTERNATE ENERGY 3.0
Unconventional energy conversion systems that do not rely on standard uses of common fossil fuels. Typical areas of study will include oil shale, tar sands, solar energy photovoltaic conversion systems, wind energy, nuclear fission and fusion, geothermal and hydroelectric energy conversion.
Prerequisite: 70990 280.

70990 311
GRAPHIC DESIGN IN PRINT MEDIA 3.0
All aspects of graphic arts design from initial concept to finished artwork. Included are studio methods of layout, composition, classification and selection of type.

70990 312
COMMERCIAL ILLUSTRATION IN PRINT MEDIA 3.0
An exploration of the various illustrative techniques of graphic reproduction. Assignments will be given with an eye toward use in compilation of a professional portfolio.

70990 321
INDUSTRIAL DRAFTING 3.0
Concepts, principles, skills of contemporary industrial practices and processes.
Prerequisite: 70990 220.

70990 322
TECHNICAL ILLUSTRATION 3.0
Translation of orthographic drawings into three-dimensional pictorial drawings. Engineering and publication illustration.
Prerequisite: 70990 220.

70990 323
ARCHITECTURAL DRAFTING – RESIDENTIAL 3.0
The student will explore the functions of a residential architect. Emphasis will be placed on a working knowledge of building construction practices, residential planning and design and architectural drafting techniques.

70990 332
SCREEN PROCESS REPRODUCTION 3.0
Screen process printing and elementary line photography. Handcut films, photographic films and process.

- 70990 333
BLACK AND WHITE PHOTOGRAPHY 3.0
Photographic processes of continuous tone photography. Darkroom construction. Chemicals, equipment, film exposure, contact printing, enlarging, drying and mounting photographs.
- 70990 341
MACHINE WOODWORKING 3.0
Shaping wood materials by portable and machine operations maintenance, jig and fixture design.
Prerequisite: 70990 240.
- 70990 342
CABINET CONSTRUCTION 3.0
All types of cabinet construction. Emphasis on industrial construction procedure in fabricating cabinets.
Prerequisite: 70990 341.
- 70990 343
HOME MAINTENANCE AND REPAIR 3.0
A survey of practical home maintenance and basic repair methods designed to meet the needs of the layman will be studied through laboratory experiences. Emphasis will be placed upon consumer knowledge, home maintenance and repair, and simple construction techniques.
- 70990 351
PLASTICS MOLDING AND PROCESSING 3.0
Manipulative processes. Injection, compression, transfer and rotational molding. Process procedure, cycle preparation and adjustment, material selection and use, machine set-up and function, sequential operation, mold use, maintenance and safety.
Prerequisite: 70990 250
- 70990 352
PLASTICS FORMING AND PROCESSING 3.0
Manipulative processes. Extrusion, blow molding and thermoforming.
Prerequisite: 70990 250.
- 70990 361
MACHINE TOOL TECHNOLOGY 3.0
Machine metalwork layout, machining and control laboratory activities.
Prerequisite: 70990 260.
- 70990 363
METALS CASTING TECHNOLOGY 3.0
Contemporary industrial metal casting techniques. Laboratory activities.
Prerequisite: 70990 260.
- 70990 371
ELECTRONIC FUNDAMENTALS 3.0
Circuit conditions. Analysis of electronic concepts, theoretically and experimentally.
Prerequisite: 70990 270.
- 70990 372
ELECTRON TUBES AND SEMI CONDUCTORS 3.0
Solid state devices and electron tubes. Laboratory activities to analyze circuit conditions.
Prerequisite: 70990 371.
- 70990 373
INTRODUCTION TO LOGIC MACHINE 3.0
Computers and mentors will be studied from the orientation of their effect on industry and society and from the perspective of their construction and operation.
- 70990 380
BASIC AUTOMOTIVE MECHANICS 3.0
Electronic diagnosis of auto engines, associated manipulative skills. Brakes, lights, front end and suspension systems.
- 70990 381
ADVANCED AUTOMOTIVES 3.0
Detailed engine operation, engine component design criteria and service procedures. The cooling system and lubrication system studied as accessory systems to the engine. Power train components such as transmissions, clutches, drive lines and differentials.
Prerequisite: 70990 280.
- 70990 398
OPERATIONS MANAGEMENT 3.0
A fundamental course regarding production and service operations management. Included are process design, category planning and scheduling, inventory management, work, force management, quality control, forecasting, materials handling and ordering, employee motivation and work methods.
- 70990 400
POWER TOOL MAINTENANCE 3.0
A presentation of accepted maintenance techniques for common industrial tools. Procedures applicable to both machine and portable tools will be dealt with. Troubleshooting, maintenance, overhaul and hands-on activity. Emphasis will be given to the development of preventive maintenance systems.
Prerequisite: Completion of required major courses or instructor's permission.
- 70990 406
INDEPENDENT STUDY IN INDUSTRY 1.0-3.0
Individual study problem with faculty guidance and sponsorship. Application required.
Prerequisite: Departmental permission.
- 70990 411
INDUSTRIAL DESIGN 3.0
Designers' approach to design products applicable to mass production techniques.
Prerequisite: 70990 210.
- 70990 415
WORKSHOP/SEMINAR IN INDUSTRIAL EDUCATION AND TECHNOLOGY 1.0-3.0
Opportunity is afforded students to study selected current issues, concerns, and/or problems in the various fields of industry, education and technology.
- 70990 422
ENGINEERING GRAPHICS 3.0
The fundamentals of descriptive geometry are explored in conjunction with orthographic projection as a system of identifying three-dimensional space data for the graphical solution of applied engineering problems.
- 70990 423
ARCHITECTURAL DESIGN 3.0
Basic aesthetic, functional and structural design, residential and light building structure. Environmental control, lighting, wiring, waste and utility systems.
- 70990 424
ENERGY CONSERVATION: RESIDENTIAL 3.0
This course is directed specifically toward all students with interest in energy conservation and the environment and for current and future homeowners. Emphasis will be placed on energy sources in housing, designing energy efficient houses, heating and cooling systems and retrofitting older homes.
- 70990 431
OFFSET LITHOGRAPHY 3.0
Photo-lithographic process. Copy preparation, camera techniques, line and halftone photography, densitometry, stripping, platemaking and presswork.
Prerequisite: 70990 230.

- 7 0990 432
ADVANCED OFFSET LITHOGRAPHY 3.0
Advanced technical information and skills. Photographic chemistry, advanced halftone techniques, posterization, duo-tones, trio-tones, screen calibration development, color negative development, enlarging and densitometric control.
Prerequisite: 7 0990 431
- 7 0990 433
COLOR PHOTOGRAPHY 3.0
Basic techniques and processes of color photography. Analysis of light, color evaluation, color transparency development, color negative development, enlarging and densitometric control.
Prerequisite: 7 0990 433.
- 7 0990 434
COLOR SEPARATION 3.0
Color separation in graphic reproduction. Light, color films sensitivity, masking, color correcting, color proofing, stripping, exposure controls, densitometric measurements, screens, screen angles and press operation.
Prerequisite: 7 0990 433.
- 7 0990 441
WOOD TECHNOLOGY 3.0
Origins, developments and advances in woods and properties, manufacturing processes and occupational information.
Prerequisite: 7 0990 240.
- 7 0990 442
RESIDENTIAL CONSTRUCTION 3.0
Residential construction materials and processes.
Prerequisite: 7 0990 342.
- 7 0990 451
PLASTICS PROCESSING TECHNOLOGY 3.0
Advanced technology in injection, compression, transfer and epoxy molding. Extrusion, lamination and casting. Skill development, mold and die-making, operational procedure, processes and material application.
Prerequisites: 7 0990 250, 351 or 352.
- 7 0990 452
PLASTICS MOLD AND FORM DESIGN, DEVELOPMENT AND CONSTRUCTION 3.0
The design, development, construction and proof of an appropriate mold or form.
Prerequisite: 7 0990 250.
- 7 0990 461
MANAGEMENT AND PRODUCTION 3.0
Mass production techniques. Market analysis, manufacturing and production control.
- 7 0990 466
WELDING TECHNOLOGY 3.0
Working knowledge of arc and gas welding. Provides New Jersey welding certificate upon successful completion.
Prerequisite: Preregistration with instructor.
- 7 0990 467
ADVANCED WELDING TECHNOLOGY 3.0
Advanced study of concepts and processes including mig and tig welding, pipe welding, sheet metal welding, special welding processes and techniques, maintenance and equipment, inspecting and testing welds, and welders' qualifications. New Jersey state welding certification required.
Prerequisite: Preregistration with instructor, 0990 460 or permission of instructor.
- 7 0990 471
ELECTRONIC CIRCUIT APPLICATION 3.0
The effect of characteristic change on basic electrical circuits.
Prerequisite: 7 0990 372.
- 7 0990 473
MICRO COMPUTER TECHNOLOGY 3.0
Manufacturing, design and consumer product application of computer technology will be emphasized. Hands-on experience with micro computers, plotters, digitizers, printers and other peripherals will aid the student in developing an appreciation for the less publicized applications of the computer. Software, firmware and hardware will be illustrated and discussed, especially as related to interfacing. Numerical controlled machining and robotics will also be studied.
- 7 0990 482
FLUID POWER 3.0
Theory and application of fluid power. Principles and laws of pneumatic and hydraulic power with frequently used components and circuitry.
Prerequisite: 7 0990 280.
- 7 0990 490
JEWELRY AND LAPIDARY 3.0
Jewelry and lapidary processes, design and materials.
- 7 0990 493
DIRECTED STUDY IN JEWELRY 3.0
An in-depth study of one of four areas (wrought metal, enameling, casting, lapidary) to be chosen at time of registration. The course may be taken twice for a total of six semester hours.
Prerequisite: 7 0990 490.
- 7 0991 405
COOPERATIVE INDUSTRIAL INTERNSHIP 4.0 or 8.0
The cooperative education experience integrates academic study with supervised, non-professional employment outside the formal classroom environment. The co-op term is a semester off-campus during which a student, while supervised by a faculty coordinator and the office of cooperative education, is responsible for completing the terms of a predetermined learning contract.
- 7 0998 401
PRINCIPLES AND PHILOSOPHY OF VOCATIONAL-TECHNICAL EDUCATION 3.0
This course presents a brief history of the social, economic, and technical forces which stimulated the development of Vocational-Technical Education. The philosophy upon which the Vocational-Technical Program is built will be extensively examined. The principles and practices of the areas and types of vocational-technical education that function are studied. Organization and function of the State and Federal Division of Vocational Education and the significant trends and developments are an important part of the course.
- 7 0998 402
CURRICULUM CONSTRUCTION IN VOCATIONAL-TECHNICAL EDUCATION 3.0
Practical skills utilized in the design and construction of vocational-technical curriculums. Relationships between related and laboratory curriculum content.
- 7 0998 403
METHODS OF TEACHING VOCATIONAL-TECHNICAL SUBJECTS 3.0
Methods of teaching, based on vocational-technical education objectives, will include selection of subject matter, selection of text books and other source material, starting a class, preparing individual and sequential lessons, organizing demonstrations, using teaching aids, developing instructional materials, record keeping, evaluation of pupil progress.
- 7 0998 404
INSTRUCTIONAL MATERIAL DEVELOPMENT IN VOCATIONAL-TECHNICAL EDUCATION 3.0
Designed to assist the vocational-technical teacher to develop teaching aids of functional value to their field; opportunity for the teacher to gain skill and proficiency in the use of conventional audio-visual teaching aids, and in the development of job, operation, information and assignment sheets.

7 0998 408
VOCATIONAL-TECHNICAL IN-SERVICE SUPERVISED TEACHINGS AND SEMINAR 8.0
 A two-part course which covers an academic year. The first part involves the student in a biweekly seminar and on-the-job supervision by the seminar instructor. The second part provides for on-the-job supervision and individual conferences. Both parts of the course must be completed before credit is awarded.

7 0998 409
VOCATIONAL GUIDANCE 3.0
 Designed to acquaint teachers in vocational-technical education with the guidance program and to assist them in the guidance functions of classroom and shop.

Linguistics

SCHOOL OF HUMANITIES AND
 SOCIAL SCIENCES

Chairperson: Alice F. Freed

Since language penetrates nearly every facet of our existence, it is one of the most important of human activities. The courses in linguistics reflect this fact and explore the many aspects of language: its structure, its history, its relationship to society and to psychological processes, its role in shaping our attitudes, its use in literature, and many other topics.

The department offers general courses for non-majors and specialized courses for majors, as well as a minor program and a variety of courses for students in other fields. In addition, the department offers courses leading to certification in Teaching English as a Second Language (TESL).

Linguistics majors receive a Bachelor of Arts degree.

Linguistics Major

Required Courses

	Semester hours
1505 210 Introduction to General Linguistics	3
1505 230 Phonetics and Phonological Theory	3
1505 300 Syntax & Semantics I	3
1505 301 Syntax & Semantics II	3
1505 245 Language and Culture	3
or	
1505 330 Sociolinguistics	3

Electives (Departmental)

Select 18 semester hours from the appropriate list to be obtained from the department 18

Linguistics Minor

Required Course

	Semester Hours
1505 210 Introduction to General Linguistics	3

Electives

Select 15 semester hours from the appropriate list available from the department 15

Second Teaching Field in Teaching English as a Second Language

Required Courses

1505 210	Introduction to General Linguistics	3
1505 220	Structure of American English	3
1505 330	Sociolinguistics	3
1505 325	Applied Linguistics	3
1505 245	Language and Culture	3
0821 445	Puerto Rican Children in Mainland Schools	3
	Bilingual/Bicultural Field Experience	3
1508 403	Methods and Materials of TESL	3
1508 430	Field Experience in TESL	3

Electives (Departmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Students specializing in TESL must give evidence of native or near-native competency in English, as determined by the Oral Language Proficiency Interview administered by the Linguistics department. Candidates for certification must also take a minimum of 3 semester hours of a foreign language.

Certification is also available for students who already hold a bachelor's degree.

Courses of Instruction

Q 1107 101
BEGINNING CHINESE I 3.0
 The first semester of an introduction to the Chinese language, focusing mainly on speaking and comprehension with secondary emphasis on reading and writing.

Q 1107 112
BEGINNING CHINESE II 3.0
 The second semester of an introduction to the Chinese language, focusing mainly on speaking and comprehension, with secondary emphasis on reading and writing.
Prerequisite: Q 1107 101

Q 1505 203
ANTHROPOLOGICAL LINGUISTICS 3.0
 Study of linguistic systems through the use of informants (speakers) of non-Indo-European languages and through published data from a variety of Amerindian and African languages. The relationship of linguistic structure and theory to cultural systems.

Q 1505 210
INTRODUCTION TO GENERAL LINGUISTICS 3.0
 The nature and structure of language; the basic techniques for analyzing linguistic structures; phonological, morphological, syntactic and semantic structure of languages; language and dialects; language change; the comparative method in linguistics; human and animal communication; first and second language learning.

Q 1505 220
STRUCTURE OF AMERICAN ENGLISH 3.0
 The phonology, morphology, syntax of American English; geographical and social dialects; traditional, structural and transformational approaches to grammar.

Q 1505 230
PHONETICS AND PHONOLOGICAL THEORY 3.0
 How sounds are produced in various languages, their acoustic properties, classification and description. The sound systems of a variety of languages. Workbook problems based on many languages.

Q 1505 245		
LANGUAGE AND CULTURE	3.0	
Language in its cultural context. Relationship of linguistic to non-linguistic variables. Ethnosemantics, componential analysis, linguistic relativity principle.		
Q 1505 250		
LANGUAGE OF PROPAGANDA	3.0	
An examination of the ways in which speakers and writers manipulate language to influence our thinking, with special emphasis on how they exploit the grammatical possibilities of English. Political language, the language of advertising, innuendo, jargon, emotive language, etc.		
Q 1505 255		
WOMEN AND LANGUAGE	3.0	
A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on women and language plus practical experience in collecting and analyzing linguistic data.		
Q 1505 260		
DIALECTOLOGY	3.0	
Principles of dialect study; application to American dialects; the origin and development of American dialects in historical, literary, regional, social and urban perspectives.		
Q 1505 284		
THE ENGLISH LANGUAGE	3.0	
English from its Indo-European origins up to and including the eighteenth-century grammarians. The Germanic strains: Old, Middle, and Modern English.		
Q 1505 290		
LANGUAGE OF THE LAW	3.0	
The characteristic properties of legal English: its linguistic structures and its social and psychological functions. Practice in analyzing and rewriting legal texts into plain English.		
Q 1505 300		
SYNTAX AND SEMANTICS I	3.0	
The first of a two-semester sequence dealing with the most important modern approaches to the description of sentence structure and meaning in language. Emphasis in this first course will be on structural grammar and the early development of transformational-generative grammar. Data will be taken from a number of different languages.		
<i>Prerequisites: Q 1505 210 and instructor's permission. Req. of Majors.</i>		
Q 1505 301		
SYNTAX AND SEMANTICS II	3.0	
The second course of a two-semester sequence dealing with the most important modern approaches to the description of sentence structure and meaning in language. Emphasis in this course will be on the later development of transformational grammar and its offshoots and on theories of meaning. Data will be taken from a number of different languages.		
<i>Prerequisites: Q 1505 300 and instructor's permission. Req. of Majors.</i>		
Q 1505 325		
APPLIED LINGUISTICS	3.0	
Comparison of first and second language acquisition; bilingualism; dialectology; contrastive analysis; interference and interlanguage errors; reading and writing; translation.		
Q 1505 330		
SOCIOLINGUISTICS	3.0	
Correlations between language varieties, their functions in particular settings, and the characteristics of their speakers. Black English. The role of second languages within a society: Pidgins, Creoles, Lingua Francas, Diglossia, etc.		
Q 1505 340		
LINGUISTICS AND LITERARY ANALYSIS	3.0	
Contribution of linguistics to our understanding of the poetic process. Writing 'literary grammars' that account for our intuitions about the poetic or prose style of author, literary work or genre. Contributions of transformational grammar to the problems of style. Transformational grammar and metrics.		
Q 1505 370		
COMPARATIVE AND HISTORICAL LINGUISTICS	3.0	
Similarities and differences among languages and language families at one point in time and as these develop in time; reconstructing the common ancestor of related languages and determining general laws of linguistic change.		
Q 1505 430		
FIELD METHODS	3.0	
Collecting and analyzing linguistic data from an informant; human factors in field work; qualifications of the informant; elicitation techniques.		
Q 1505 450		
SELECTED TOPICS IN LINGUISTICS	3.0	
Study of special problems and topics in linguistics. Topics announced each semester.		
<i>Prerequisite: Q 1505 210 or equivalent and permission of instructor.</i>		
Q 1505 451		
SELECTED TOPICS IN LINGUISTICS	3.0	
Study of special problems and topics in linguistics. Topics announced each semester.		
<i>Prerequisite: Q 1505 210 or equivalent and instructor's permission.</i>		
Q 1505 478, 479		
INDEPENDENT STUDY	3.0 each	
This course is designed: (1) to allow students to explore areas of linguistics that are not covered in the normal course offerings of the department; (2) to permit an in-depth analysis of a given subject beyond the scope of a regular semester course; or (3) to provide advanced students with the possibility of research in areas of linguistics that are of special interest to them.		
<i>Prerequisite: Q 1505 210 and permission of instructor.</i>		
Q 1508 151		
INTENSIVE ESOL I	6.0	
The course aims to develop all four language skills: listening, speaking, reading, writing. This course will emphasize listening comprehension and speaking. Language laboratory is required. This class will meet twice a week for two and a half hours each session and two hours language laboratory practice each session. The same instructor will conduct both sessions.		
<i>Prerequisite: Placement exam.</i>		
Q 1508 152		
INTENSIVE ESOL II	3.0	
The course aims to continue the development of all four skills: listening, speaking, reading, writing, with special emphasis on reading and vocabulary development. This class will meet once a week for two and one half hours and two hours laboratory practice.		
<i>Prerequisite: Q 1508 151 or equivalent.</i>		
Q 1508 153		
INTENSIVE ESOL III	3.0	
A continuation of ESOL II, with increasing emphasis on reading and writing. Meets once a week for two and a half hours.		
<i>Prerequisite: Q 1508 152 or equivalent.</i>		
Q 1508 154		
INTENSIVE ESOL IV ADVANCED COMPOSITION	3.0	
Prepares non-native speakers of English for the writing of academic research papers, selecting and writing the topic, library research methods, documentations, preparing and revising a rough draft.		
<i>Prerequisite: Q 1508 153.</i>		

Q 1508 310
ESOL-ADVANCED ORAL SKILLS 3.0
 The course is designed to improve the oral language skills of non-native English speakers whose background has emphasized the skills of reading and writing. The course is intended to help develop oral proficiency in students whose oral comprehension and ability to make themselves understood is weak. The course will concentrate on skill of speaking.

Q 1508 311
ESOL-ADVANCED LISTENING SKILLS 3.0
 This course is designed to improve the comprehension of spoken English by the non-native speaker whose writing and speaking are acceptable but who has difficulty following classroom lectures and conversations among English speakers.

Q 1508 403
METHODS AND MATERIALS OF TESL 3.0
 The theory and practice of ESL instruction covering the major methodologies, planning lessons, testing language skills, selecting and developing materials, and related topics.

Q 1508 430
FIELD EXPERIENCE IN TEACHING ENGLISH AS A SECOND LANGUAGE 3.0
 Opportunity to teach English as a second language will be arranged for each student in the program.

Q 2001 250
PSYCHOLINGUISTICS 3.0
 The study of language through linguistic, behavioral and cognitive methods. Basic linguistic ideas for the explication of problems in grammar, cognitive structure, meaning and speech production and comprehension.
Prerequisites: T 2001 105 and instructor's permission.

Management

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Joseph Greco

Students whose concentration is in management learn about the actual operation of a business organization and how to be a business leader. Managers must develop many kinds of skills. For example, they should have an understanding of human behavior in organizations, the ways in which computers can aid in decision-making, the relationship of business firms to government and society, and how international business firms operate.

The concentration in management provides professional education in organization theory and behavior, the management of human resources, operations, and production and information systems. It also supplies a good background in systems design and analysis as well as in decision making in an environment of risk and uncertainty.

The department offers a Bachelor of Science degree in business administration with a concentration in management.

Business Administration Major

Required Courses

	Semester Hours
0502 201 Fundamentals of Accounting I	3
0502 202 Fundamentals of Accounting II	3

0501 261 Legal Environment of Business I	3
0503 270 Statistics for Business	4
0506 311 Management Process and Organizational Behavior	4
0504 321 Fundamentals of Finance	3
0509 340 Introduction to Marketing	3
0503 372 Management Science	4
0506 439 Business Policy	3
0503 463 Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113 Mathematics for Business I	3
1701 114 Mathematics for Business II	3
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3

Concentration Within the Major

Management

Required Courses

	Semester hours
0506 316 Human Resource Management	3

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Courses of Instruction

E 0506 273
INTRODUCTION TO BUSINESS DATA PROCESSING 3.0
 Computers used in developing business information systems. Topics include: history of data processing and information systems, needs of high speed equipment, numbering systems, data representation, programming concept, and use of business application program. (Alternate: Y 0701 260).

E 0506 310
THE MANAGEMENT PROCESS 3.0
 The field of management theory and practice: Classic principles and the behavioral aspects of organization life, especially motivation and interpersonal relationships. Quantitative tools as decision aids, especially in production and operations. Non-business majors only.

E 0506 311
MANAGEMENT PROCESS AND ORGANIZATIONAL BEHAVIOR 4.0
 To provide undergraduate students a review of classical and modern approaches to the managerial process as it relates to the manager's functions of planning, organizing, staffing, leading, and controlling. These reviews will be tied to the open-system model and the contingency approach as an overall framework for understanding the management of organizations.

E 0506 316
HUMAN RESOURCE MANAGEMENT 3.0
 Motivating managerial and non-managerial employees. Effective use of human resources in the organization. The personnel function, techniques of job analysis, description and evaluation, and overall organizational development particularly with minority group members and female employees.
Prerequisite: E 0506 311.

- E 0506 317**
MOTIVATION AND LEADERSHIP 3.0
 In-depth analysis of the human element. Analytical models to assist in the solution of leadership problems in an organizational context. Techniques of analysis and the psychology of self-esteem. Motivational problems facing first-line, middle, and top level managers in professional and nonprofessional work activities. The development of skills for practical application. Case studies.
Prerequisite: E 0506 311.
- E 0506 327**
EMPLOYEE TRAINING 3.0
 Training as a systematic approach to develop specific human resource needs of organizations is addressed in terms of needs assessment program development, training techniques, and evaluation. Applications in business, health care, and government organizations are considered.
Prerequisite: E 0506 311.
- E 0506 332**
MINORITIES IN BUSINESS 3.0
 Methods and techniques for solving problems minority group members may encounter in business. New or existing personnel in managerial and non-managerial positions in established firms. Minority group members as entrepreneurs. Relationships with other members of an organization.
Prerequisites: E 0506 311, F 0509 340.
- E 0506 335**
SMALL BUSINESS MANAGEMENT 3.0
 The problems and opportunities of starting and operating a small business. Capital accumulation, adapting technologies to specialized needs, assessing local market opportunities, governmental aids, establishing working relationships with large organizations and problems of growth.
Prerequisites: E 0506 311, F 0509 340, D 0504 321.
- E 0506 336**
INTERNATIONAL BUSINESS MANAGEMENT 3.0
 General theory on international trade. The mechanisms of international balance of payments, and the procedures involved in international trade practices. The theory of comparative advantage, tariff system, international trade policy and monetary systems, balance of payment adjustment, flows of capital, development of market abroad, financing of international trade and handling of export shipment.
Prerequisites: C 2204 102, E 0506 311.
- E 0506 363**
BUSINESS AND SOCIETY 3.0
 Business as an institution in our pluralistic society. Its relationship with other societal elements such as government, academia, labor and the consumer. American business past, present and future. Strengths, weaknesses and overall contribution to society. Ecology, minority groups and the quantity and quality of economic growth.
- E 0506 371**
MANAGEMENT INFORMATION SYSTEMS 3.0
 Total information systems from the perspective of organizations. Information from the management point of view. Its needs, cost and value. Definition and analysis in the solution of systems problems. The computer as a tool of processing accounting, marketing and financial information for decision making and policy setting. Work in field, majors only.
Prerequisites: A 0502 202, D 0503 270, E 0506 311, instructor's permission.
- E 0506 392**
BUSINESS INTERNSHIP 1.0
 Full-time on-the-job experience in a business organization under college supervision. During this experience, the student investigates and discusses in a seminar such topics as job analysis, description, study guides, training techniques and problems.
Prerequisite: Instructor's permission.
- E 0506 414**
MANAGEMENT THEORIES: BEHAVIORAL APPROACHES 3.0
 Advanced analysis of the most recent developments in the behavioral sciences as a basis for practical applications in the management of organizations. Special emphasis on techniques drawn from several behavioral models including approaches such as transactional analysis and behavior modification.
Prerequisite: E 0506 311.
- E 0506 415**
ORGANIZATIONAL THEORY: MACRO APPROACHES 3.0
 A detailed analysis using the most up-to-date theories in the field of organizational analysis as it pertains to the management of organizations. Emphasis is placed on the application and understanding of macro models of human behavior in organizations to include such approaches as natural, rational and open systems models.
- E 0506 417**
COMPENSATION MANAGEMENT 3.0
 Theory and practice in employee wage and salary administration in both business and non-business organization. Traditional job evaluation methods and survey techniques are presented with emphasis on both the economic and behavioral effects of compensation practices.
Prerequisites: E 0506 316, majors only.
- E 0506 433**
ENTREPRENEURSHIP AND INNOVATION 3.0
 Attitudes and perspectives for effecting meaningful and profitable change. Concepts of creativity, optimum use of resources, and the impact of technological change. Anticipating needs and wants of all groups influenced by the enterprise. Examples of successful entrepreneurship, role-playing and situational exercises.
Prerequisite: E 0506 311.
- E 0506 434**
COMPARATIVE MANAGEMENT SYSTEMS 3.0
 Multinational corporations expanding into areas with new sociological and cultural constraints. Problems of management in the public sector as contrasted with the private sector. Management in newly developed economies, and in highly industrialized economies. Public corporations, non-profit organizations, mixed enterprise.
Prerequisite: E 0506 311.
- E 0506 435**
ORGANIZATIONAL DEVELOPMENT AND CHANGE 3.0
 The purpose of this course is to develop an understanding of and some skill in the process of planning, introducing, and managing change in organizations. Considerable time will be devoted to the role of the manager as a change agent. Cases and experiential exercises will be used to illustrate the various phases of the change process as well as the different change techniques available.
Prerequisites: E 0506 311, majors only, instructor's permission
- E 0506 439**
BUSINESS POLICY 3.0
 Establishing and implementing corporate goals. The firm as a collection of internal and external objectives. Information from functional areas analyzed along the lines of departmental activities. Decision making under conditions of risk and uncertainty. Planning and strategy in a changing environment. Reconciling departmental goals and company objectives through the systems approach. The effects of corporate decisions on public policy. Case studies and simulation games.
- E 0506 491**
BUSINESS PROBLEMS 3.0
 The problems approach to business ownership, finances, location and layouts, purchasing, personnel and managerial controls. Can be used as an independent study course for not more than two times.
Prerequisite: Permission of the department chairperson

E 0506 492
 SELECTED TOPICS IN ADMINISTRATIVE SCIENCES 1.0-3.0
 Professional inquiry into the study of a selected issue, problem or trend in accounting, finance, management and organizational behavior, marketing, quantitative analysis, and general business.

E 0506 499
 HONORS SEMINAR 3.0
 Opportunity for a select number of students to study management issues in a small, intimate classroom environment. Students will be given a broad range of opportunities for exploration of the literature as well as investigation of the problems selected out for detailed study.

Marketing

SCHOOL OF BUSINESS ADMINISTRATION

Chairperson: Ralph DiPietro

Marketing attempts to meet the needs of an ever changing environment by taking all necessary steps to get a product from the producer to the consumer. Research and product planning are just a couple of important stages a product goes through before it is made.

The marketing concentration provides students with a knowledge of the theoretical and practical aspects of the subject. Courses in advertising, consumer behavior, sales promotion, and marketing research and strategies prepare students for entry level positions and for potential advancement in marketing and sales careers. Additional courses will expand student awareness of international opportunities, and a well chosen sequence of courses sharpens analytical, creative, and decision-making skills.

The department offers a Bachelor of Science degree in business administration with a marketing concentration.

Business Administration

Required Courses

	Semester Hours
0502 201 Fundamentals of Accounting I	3
0502 202 Fundamentals of Accounting II	3
0501 261 Legal Environment of Business I	3
0503 270 Statistics for Business	4
0506 311 Management Process and Organizational Behavior	4
0504 321 Fundamentals of Finance	3
0509 340 Introduction to Marketing	3
0503 372 Management Science	4
0506 439 Business Policy	3
0503 463 Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113 Mathematics for Business I	3
1701 114 Mathematics for Business II	3
2204 101 Principles of Economics: Macro	3
2204 102 Principles of Economics: Micro	3

Concentration Within the Major

Marketing

Required Courses

0509 341 Consumer Behavior	
OR	
0509 443 Industrial Marketing	3
0509 442 Marketing Research	3
0509 446 Marketing Strategy and Implementation	3

Electives (Departmental)

Select any advanced marketing course from the appropriate list obtained from the department 3

Courses of Instruction

F 0509 340
 INTRODUCTION TO MARKETING 3.0
 The role of marketing. Significance of marketing decisions to overall performance. Behavioral aspects of marketing, the impact of consumer behavior in purchase decisions, special problems of industrial marketing, the consumer movement and formal and informal societal constraints on marketing practices.

F 0509 341
 CONSUMER BEHAVIOR 3.0
 Industrial and consumer buying behavior. The user of consumer products. Behavioral science findings, marketing research techniques and consumer attitudes. Socio-economic and demographic variables.
Prerequisite: F 0509 340.

F 0509 342
 SALES CONCEPTS AND PRACTICES 3.0
 An analysis of the complete personal selling function from the perspective of one organization selling to another. Topics dealing with both the actual mechanics of the selling process and the management of the process and its actors are included.
Prerequisite: F 0509 340.

F 0509 344
 ADVERTISING MEDIA 3.0
 An opportunity to study advertising media such as newspapers, magazines, radio, television and direct mail and to evaluate their effectiveness in terms of campaigns.
Prerequisite: F 0509 340.

F 0509 349
 INTERNATIONAL MARKETING 3.0
 The importance of international marketing for the U.S. Environmental conditions and controlling factors. Development of foreign markets and selection of appropriate organizational means. Introduction into the mechanics of import and export. Manufacture abroad. Multinational companies.
Prerequisite: F 0509 340.

F 0509 442
 MARKETING RESEARCH 3.0
 A broad management perspective on market research methodology. A systems approach, collection and analysis of facts, opinions, forecasts, etc., for determining marketing strategies. Research techniques and designs, tabulation and report presentation.
Prerequisite: F 0509 340, D 0503 270.

F 0509 443
INDUSTRIAL MARKETING 3.0
 A study of the various problems faced by organizations who market goods and services consumed by other organizations. A managerial focus based on an understanding of organizational buying activities is stressed.
Prerequisites: F 0509 340, 341, majors only, instructor's permission.

F 0509 446
MARKETING STRATEGY AND IMPLEMENTATION 3.0
 Relationship of marketing to the activity of the firm from the theoretical and practical perspectives. The variables of marketing decision making. Sophisticated techniques for problem solving. Case studies help to develop an analytical posture in marketing planning.
Prerequisite: F 0509 442. To be taken in senior year.

F 0509 464
LEGAL PROBLEMS OF THE MARKETING PROCESS 3.0
 The historic and social relationships of law and marketing. The legal framework including (1) the relationship of administrative agencies to enforcement of legislative policy, (2) governmental regulation of anti-competitive business behavior, (3) regulations protecting consumers and (4) regulations protecting the use of intellectual property. Legal problems of international marketing and distribution.
Prerequisites: A 0501 261, F 0509 340.

Mathematics and Computer Science

SCHOOL OF MATHEMATICAL AND
 NATURAL SCIENCES
Chairperson: Kenneth C. Wolff

Mathematics and computer science are essential areas of knowledge in the modern technological world. In order to equip students with proper skills, the department offers a major and a minor program in mathematics and a major and a minor program in computer science. In addition the department offers a concentration in applied mathematics. Both major programs lead to a Bachelor of Science degree. With the proper choice of elective courses, a student may prepare for graduate study or for work in a variety of fields such as computer science, statistics, actuarial science and management science. There are honors programs in mathematics and computer science for qualified students.

It is possible to pursue a dual major program, mathematics and computer science. This can be arranged with the advice of the chairperson. A student who is interested in advanced placement or who has questions about qualifications for placement in calculus should contact the chairperson for the proper information.

Mathematics Major

Required Courses

1701 122	Calculus I	4
1701 221	Calculus II	4
1701 222	Calculus III	4
1701 335	Elements of Linear Algebra	4
1701 340	Probability	3

Collateral Courses

0701 183	Foundations of Computer Science I	3
1902 191, 192	General Physics I, II	8

Electives

Select 18 semester hours from the appropriate list to be obtained from the department 18

Mathematics Minor

Students may earn a minor in the field of mathematics by completing an approved 18 semester hour program in mathematics. See the department for specific requirements.

Applied Mathematics Concentration

See the department for specific details about this program.

Teacher Certification

Students desiring teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. The specific mathematics courses needed for certification should be obtained from the department.

Second Teaching Field in Mathematics

Those students majoring in another field who wish to teach mathematics as a second field must take an approved 24 semester hour program in mathematics, including one course in computer science, as well as their major field requirements.

Computer Science Major

Required Courses

0701 183	Foundations of Computer Science I	3
0701 184	Foundations of Computer Science II	3
0701 280	Assembly Language and Machine Organization I	3
0701 281	Assembly Language and Machine Organization II	3
0701 285	Discrete Math Structures	3
0701 383	Data Structures	3

Collateral Courses

1701 122	Calculus I	4
1701 221	Calculus II	4
1701 335	Elements of Linear Algebra	4
1701 340	Probability	3

One of these five sequences

- 1902 191, 192 General Physics I, II 4 ea
- 1905 120, 121 General Chemistry I, II 4 ea

3. Select two courses

- | | | |
|------------------|--|------|
| 0401 121 | Plant Kingdom | 4 |
| 0401 130 | Invertebrate Zoology | 4 |
| 0401 131 | Vertebrate Zoology | 4 |
| 0401 140 | Biology of the Cell | 4 |
| 0401 212 | Genetics, Individual and Society | 3 |
| 4 0502 201, 202 | Fundamentals of Accounting I, II | 3 ea |
| 0506 311 | Management Process & Organizational Behavior | 4 |
| 5. 2204 101, 102 | Principles of Economics: Macro, Micro | 3 ea |
| 0506 311 | Management Process & Organizational Behavior | 4 ea |

Note: The department recommends that students consider taking a second and possibly third sequence in collateral courses, as well as advanced writing skills – technical and scientific. Independent study in advanced areas is available. See the department chairperson for information.

Electives

Select 15 semester hours from the appropriate list to be obtained from the department 15

Computer Science Minor

Students may earn a minor in computer science by satisfactorily completing an 18 semester hour program which includes Y 0701 183, 184, and 261. At least 9 semester hours must be taken at Montclair State College. At least 6 semester hours must be taken above the 280 level.

Courses of Instruction

Computer Science

Y 0701 107
COMPUTERS AND SOCIETY 2.0
The impact of the digital computer on modern society. The effect of information processing in the social and political spheres and the relation of computer information processing to human thought. Not for math/science majors.

Y 0701 108
COMPUTERS AND PROGRAMMING 3.0
Develops programming competence in the BASIC language and the use of stored library programs. Problems will be primarily of a non-mathematical nature. Not for math/science majors.

Y 0701 183
FOUNDATIONS OF COMPUTER SCIENCE I 3.0
Basic theory of digital computers. Syntax and semantics of a programming language. Algorithms: logic, design, testing and documentation. Majors only.
Prerequisite: Y 1701 115.

Y 0701 184
FOUNDATIONS OF COMPUTER SCIENCE II 3.0
Continuation of Y 0701 183. Algorithm development involving user functions; subroutines, recursions, structures file manipulation. Majors only.
Prerequisite: Y 0701 183.

Y 0701 261
COMPUTER APPLICATIONS I: DATA PROCESSING 3.0
Applications in accounts receivable, payroll and inventory. Language COBOL, Card, tape, and disc files. Majors only.
Prerequisite: Y 0701 183.
Corequisite: Y 1701 221.

Y 0701 273
INTRODUCTION TO BUSINESS DATA PROCESSING 3.0
Emphasis is on the business application of a modern computer using COBOL. May not be taken for credit by students who have received credit for Y 0701 183 or equivalent. Not for math/science majors or students who have taken B 0838 273 or E 0506 273.

Y 0701 280
ASSEMBLY LANGUAGE AND MACHINE ORGANIZATION I 3.0
Computer structures, the conventional machine level, introduction to assembler language.
Prerequisite: Y 0701 184.
Corequisite: Y 1701 221.

Y 0701 281
ASSEMBLY LANGUAGE AND MACHINE ORGANIZATION II 3.0
Microprogramming level of a computer, the operating system level, assembler topics including subroutines, input/output macros, dumps and macro writing.
Prerequisite: Y 0701 280.
Corequisite: Y 0701 285.

Y 0701 285
DISCRETE MATH STRUCTURES 3.0
The structures include sets, graphs, digraphs, trees, networks, lattices, matrices, semigroups, and groups. Many practical business and scientific problems can be posed and solved by the use of these structures.
Prerequisite: Y 0701 184, majors only.

Y 0701 286
INTRODUCTION TO NUMERICAL COMPUTING 3.0
Fundamentals of numerical computation, with emphasis on basic algorithms and their efficient implementation; appropriate treatment of theoretical bases. Topics include floating point arithmetic, round off error and error propagation, numerical solution of non-linear equations, interpolation and approximation, and numerical integration. The FORTRAN language will be taught and used in programming assignments.
Prerequisites: Y 0701 183, Y 1701 122 (*corequisite*).

Y 0701 289
INTRODUCTION TO APL 3.0
Develops programming competence in the APL language. APL language. APL is an acronym for a programming language. Applications in the field of science, mathematics, and business. Free elective credit only.

Y 0701 381
COMPUTER APPLICATIONS II-FILE PROCESSING 3.0
Advanced techniques in data processing including modular programming, debugging language, table handling, subscription and indexing, variable length records and tables, declarations and linkages, report generation, tape and disc file processing. Searching, sorting, updating and retrieving from files. Sequential, indexed sequential and direct-access file organization. The programming language will be COBOL.
Prerequisite: Y 0701 261.

Y 0701 382
COMPUTER APPLICATIONS III-SYSTEMS ANALYSIS 3.0
A major project includes forms design, sequential files, files, merge, sort, and editing programs.
Prerequisite: Y 0701 261.

Y 0701 383
DATA STRUCTURES 3.0
Data structures including linear lists, strings, trees, chains, paging, data base design, storage systems, and structures.
Prerequisites: Y 0701 280, 285.

Y 0701 384
SYSTEMS SOFTWARE 3.0
Design and implementation of assemblers, linkage editors and loaders, libraries, macro processors, and text editors; their relationship to an operating system.
Prerequisite: Y 0701 280.

Y 0701 385
MICROCOMPUTERS 3.0
Introduction to chip technology, microprocessors, microcomputers, architecture, instruction sets and programming of microcomputers.
Prerequisite: Y 0701 280.

Y 0701 386
COMPUTER CIRCUITS AND INTERFACES 3.0
Basic digital and analog computer circuits and interface circuits. Computer-telecommunications interfaces.
Prerequisite: Y 0701 385.

Y 0701 481
OPERATING SYSTEMS 3.0
System architecture; DOS, OS systems, multi-programming; virtual storage
Prerequisite: Y 0701 383

Y 0701 483
COMPUTER APPLICATIONS IV- DATA BASES 3.0
A comprehensive collection of data base organizations and design tools. File organizations and evaluations, database structures, schemata and implementations. Database security, operations and management.
Prerequisite: Y 0701 381.

Y 0701 484
FUNDAMENTALS OF PROGRAMMING LANGUAGES 3.0
Syntax and semantics of programming languages. Principles of compilers and compiler constructions, including object code generation.
Prerequisite: Y 0701 383

Y 0701 485
COMPILER CONSTRUCTION 3.0
Introduction to the concepts and techniques used in the description of programming languages and in the construction of compilers.
Prerequisite: Y 0701 383.

Y 0701 490
HONORS SEMINAR IN COMPUTER SCIENCE 3.0
Topics not usually covered within standard computer science courses. A written and an oral report are required.
Prerequisites: Y 0701 383, Y 1701 335 and instructor's permission.

Y 0701 495
TOPICS IN COMPUTER SCIENCE FOR UNDERGRADUATES 1.0-3.0
Study of specialized topics in computer science.
Prerequisites: Y 1701 383, Y 1701 335 and instructor's permission.

Y 0701 499
COOPERATIVE EDUCATION IN COMPUTER SCIENCE 3.0-8.0
The study of theoretical ideas of computer science combined with their practical applications in a real life environment. The co-op experience is a semester working off campus under the guidance of a company supervisor and a faculty supervisor. Only 3 of the 8 credits may be used to fulfill the major requirement.
Prerequisite: Approval of faculty coordinator and co-op office.

Courses of Instruction

Mathematics

Y 1701 050
BASIC SKILLS MATH I-COMPUTATION AND ELEMENTARY ALGEBRA 3.0
Fundamental operations on real numbers. Introduction to Algebra including linear equations and the development of algebraic manipulative skills. Estimation. Problem solving. Use of hand-held calculators. Credits not useable toward graduation.

Y 1701 051
BASIC SKILLS MATH II-ALGEBRA 3.0
Basic elementary algebra course. Includes fundamental algebraic processes, linear and quadratic equations, graphing and applications. Credits not useable toward graduation

Y 1701 103
THE DEVELOPMENT OF MATHEMATICS 3.0
The growth and development of mathematics from ancient to modern times. Contributions of the great mathematicians. Not for math/science majors.

Y 1701 109
STATISTICS 3.0
Introduction to the use and misuse of statistics. Topics include analysis and presentation of data, variability and uncertainty in data, techniques of statistical inference and decision making. Not for mathematics majors.
Prerequisite: Y 1701 050 or satisfactory performance on New Jersey College Basic Skills Placement Test

Y 1701 110
INTERMEDIATE ALGEBRA 3.0
Topics include sets, relations, functions, development of number systems and algebraic operations. Students who received high school credit for intermediate algebra may not receive degree credit for Y 1701 110. Not for math/science majors.

Y 1701 113
MATHEMATICS FOR BUSINESS I: LINEAR ALGEBRA 3.0
Matrices, linear programming, probability and statistics.
Prerequisite: Y 1701 051 or satisfactory performance on NJCBSPT and 3 years of high school mathematics.

Y 1701 114
MATHEMATICS FOR BUSINESS II: CALCULUS 3.0
The general aim of this course is to introduce the students to the basic skills of differentiation, integration, maxima-minima problems and several of the other applications of calculus, including modeling, especially models in business and economics.
Prerequisite: Y 1701 113.

Y 1701 115
PRECALCULUS MATHEMATICS 3.0
Elements of sets, relations and functions, circular functions, plane analytic geometry including conic sections, logarithmic and exponential functions.
Prerequisite: Y 1701 110 or satisfactory performance on NJCBSPT and 3 years of high school mathematics.

Y 1701 116
CALCULUS A 4.0
Differentiation and integration of functions, including trigonometric functions. Applications to biology and geoscience. Not for math, chemistry or physics majors.
Prerequisite: Y 1701 115

Y 1701 117
MATHEMATICS AND COMPUTER SCIENCE FOR THE LIFE SCIENCES I 4.0
Descriptive statistics; counting techniques-permutations, combinations, sets; probability and probability distributions, tree diagrams; introduction to the BASIC language; simulation; role of computers in society. Applications include genetics, ecology, biochemistry, and population growth
Prerequisite: Y 1701 051 or satisfactory performance on NJCBSPT

Y 1701 118
MATHEMATICS AND COMPUTER SCIENCE FOR THE LIFE SCIENCES II 3.0
Mathematical models, hypothesis testing, genetics models, diversity in populations; randomness, contingency tables, regression analysis; tests of biological models. Methods of course applied to real biological data throughout with microcomputers used as a tool.
Prerequisite: Y 1701 117.

- Y 1701 122
CALCULUS I 4.0
 Limits, continuity; derivatives and differentiation; applications of the derivative, maxima, minima, and extrema considerations; antiderivatives; Riemann Integral.
Prerequisite: Y 1701 115.
- Y 1701 221
CALCULUS II 4.0
 Riemann integral applications, transcendental functions, techniques of integration, improper integrals, L'Hospital's rule, infinite series.
Prerequisite: Y 1701 122.
- Y 1701 222
CALCULUS III 4.0
 Vector algebra; partial differentiation, and extrema considerations; polar, cylindrical, and spherical coordinates, multiple integration; introduction to line integrals.
Prerequisite: Y 1701 221.
- Y 1701 242
BIostatISTICS 3.0
 Applications of statistical methods to toxicology. Experimental design, descriptive statistics, random sampling, estimation, inference, hypothesis testing: one and two sample test; ANOVA, quality control, regression and bio-assay. Microcomputer and statistical packages. Not for math or computer science majors.
Prerequisite: Y 1701 122.
- Y 1701 270
STATISTICS FOR BUSINESS 4.0
 Modern statistical methods and decision making. Topics covered include descriptive statistics, probability theory, estimation, sampling, hypothesis testing, non-parametric methods, regression and time series analysis. Not for math/science majors or students who have taken D 0503 270.
- Y 1701 335
ELEMENTS OF LINEAR ALGEBRA 4.0
 Vectors, vector spaces in 2, 3, and N-dimensions, systems of linear equations, matrices, determinants, linear transformations, and applications.
Prerequisite: Y 1701 221 or equivalent.
- Y 1701 340
PROBABILITY 3.0
 Chance and variability, elements of combinatorics, Bayes' theorem, random variables, binomial, Poisson and normal distributions, applications to statistics.
Prerequisite: Y 1701 221.
- Y 1701 350
COLLEGE GEOMETRY 3.0
 Study of Euclidean and other geometries from an axiomatic point of view.
Prerequisites: Y 1701 221.
- Y 1701 398
VECTOR CALCULUS 3.0
 Topics include the algebra of the differential and integral, gradients, divergence and curl of a vector field, and integral theorems together with applications drawn from the physical sciences.
Prerequisite: Y 1701 222.
- Y 1701 420
DIFFERENTIAL EQUATIONS 3.0
 Linear differential equations, exact and total differential equations, simultaneous equations, numerical approximations, series solutions.
Prerequisite: Y 1701 335.
- Y 1701 423
INTRODUCTION TO COMPLEX VARIABLES 3.0
 This course is a study of the arithmetic and algebra of complex numbers, and an introduction to the differentiation and integration of complex functions. Topics include rectangular and polar form of complex numbers, algebra of complex numbers, differentiation, Cauchy-Riemann equations, and contour integrals.
Prerequisite: Y 1701 222.
- Y 1701 425
ADVANCED CALCULUS I 3.0
 Properties of the real number system, limits, continuous functions, intermediate value theorem, derivative, mean value theorem, Riemann integral.
Prerequisite: Y 1701 222.
- Y 1701 426
ADVANCED CALCULUS II 3.0
 Functions of several variables, partial derivatives, Green's theorem, Stoke's theorem, divergence theorem, implicit function theorem, inverse function theorem, infinite series, uniform convergence.
Prerequisite: Y 1701 425.
- Y 1701 428
INTRODUCTION TO TOPOLOGY 3.0
 Topological spaces, metric spaces, continuity compactness, connectedness, and separability properties. Topological generalizations of basic continuity theorems of advanced calculus.
Prerequisite: Y 1701 425.
- Y 1701 431
FOUNDATIONS OF MODERN ALGEBRA 3.0
 Fundamental concepts of algebra including groups, rings, integral domains and fields, with important examples.
Prerequisite: Y 1701 335.
- Y 1701 433
THEORY OF NUMBERS 3.0
 Properties of integers, congruences, quadratic reciprocity law, primitive roots, diophantine equations, continued fractions, algebraic numbers, lattice points and partitions.
Prerequisite: Y 1701 221.
- Y 1701 436
ELEMENTS OF LOGIC 3.0
 Deduction, propositional functions, quantifiers, consistency, decision problems and Goedel's theorem.
Prerequisite: Y 1701 221.
- Y 1701 440
STATISTICAL METHODS FOR RESEARCH 3.0
 Applications of statistical methods. Estimation, hypothesis testing, inference, enumeration data, correlation, regression, analysis of variance, nonparametric methods and elementary experimental design.
Prerequisite: Y 1701 340.
- Y 1701 441
STATISTICAL COMPUTING 3.0
 This course is designed: (1) to acquaint students with the use of the computer in solving statistical problems, and (2) to develop intermediate level statistical methodology. Several statistical computing packages and the student's own programs will be utilized.
Prerequisites: Y 0701 183, Y 1701 440.
- Y 1701 443
INTRODUCTION TO MATHEMATICAL STATISTICS 3.0
 Develops statistical methods from probability theory. Topics discrete and continuous probability distributions, estimation, inference and hypothesis testing.
Prerequisite: Y 1701 440.

Y 1701 450
FOUNDATIONS OF GEOMETRY 3.0
 Groups of transformations, an introduction to projective geometry.
Prerequisite: Y 1701 221.

Y 1701 463
INTRODUCTION TO NUMERICAL ANALYSIS 3.0
 Finite differences, approximation theory, linear and non-linear equations, error analysis.
Prerequisites: Y 0701 286, Y 1701 335.

Y 1701 464
OPERATIONS RESEARCH I 3.0
 Linear programming, transportation problem, assignment problem, duality, sensitivity analysis, network flows, dynamic programming, nonlinear programming, integer programming.
Prerequisite: Y 1701 335.

Y 1701 465
OPERATIONS RESEARCH II 3.0
 Game theory, queuing models, inventory models, Markov processes, reliability theory and applications.
Prerequisites: Y 1701 464, 340.

Y 1701 469
MATHEMATICAL MODELING 3.0
 The art of constructing mathematical models for "real world" problems, solving the model, and testing the accuracy of the model. Problems will be selected from business, science, computer science, engineering, and the social sciences.
Prerequisites: Y 1701 335 and 340; and either 440 or 464.

Y 1701 470
TEACHING OF MATHEMATICS 3.0
 Selection, organization and presentation of junior and senior high school mathematics. Classroom activities, lesson planning, motivation, evaluation, multi-sensory aids and principles of learning.
Prerequisite: Admission to teacher education program.

Y 1701 471
SELECTED TOPICS IN MODERN MATHEMATICS 3.0
 Professionalized view of junior and senior high school mathematics topics. Functions, real and complex numbers, analytic geometry, absolute value and inequalities, sets and logic, flow charting, linear programming.
Prerequisite: Admission to teacher education program.

Y 1701 475
HISTORY OF MATHEMATICS 3.0
 Histories of geometry, number theory, algebra, calculus and infinite processes.
Prerequisite: Y 1701 221

Y 1701 490
HONORS SEMINAR IN MATHEMATICS 3.0
 This course will concentrate on subject matter not usually covered within other standard mathematics courses. A written and oral report are required.
Prerequisite: Y 1701 222, 335; permission of honors program director.

Y 1701 495
TOPICS IN MATHEMATICS FOR UNDERGRADUATES 1.0-3.0
 Students may do independent work in advanced topics under the supervision of an instructor. Study of advanced topics in undergraduate mathematics.
Prerequisites: Y 1701 222 and instructor's permission.

Music

SCHOOL OF FINE AND PERFORMING ARTS

Chairperson: Barbara L. Wheeler

The department of Music stresses performance skills, breadth of musical understanding and work in the liberal arts. The department is accredited by both the National Association of Schools of Music and the National Association for Music Therapy. Two degrees are offered, the Bachelor of Music and the Bachelor of Arts.

Concentrations available within the Bachelor of Music program are Performance, and Theory/Composition. Concentrations within the Bachelor of Arts program in Music are Music Education and Music History.

A Bachelor of Arts in Music Therapy is also offered

Entrance Requirements

General

Those who wish to major in music must have an interview and an audition on a primary instrument (including voice). Prospective music majors should be able to show musicality, primary and secondary performing skills and knowledge of elementary music theory. It is important to have studied music seriously throughout high school. Participation in choral and/or instrumental groups and piano study are highly recommended for all applicants.

Applied Music

Secondary Instruments

- All non-keyboard majors must study secondary piano or pass qualifying examinations in piano.
- Placement in any other secondary instruments is by audition
- Admission to secondary voice study is upon demonstration of ability to sing an art song with good intonation and of a voice with some promise of development

Primary Instruments

Piano

- All major scales and harmonic minor scales, four octaves, hands together.
- I, IV and V triads and their inversions in all major and minor keys.
- Sightreading of a choral harmonization by J.S. Bach.
- Three compositions: one by J.S. Bach (an invention, or a Prelude and Fugue, or a Suite); one by Haydn, or Mozart, or Beethoven (sonata movement); one by a composer from the nineteenth or twentieth centuries.

Organ

- All major scales and harmonic minor scales, four octaves, hands together.
- I, IV and V triads and their inversions in all major and minor keys.
- Two compositions for piano: one by J.S. Bach (an invention) and a work of the student's choice by such composers as Beethoven, Chopin, Debussy, et al

- At least one year of organ study. Suggested materials: Gleason, *Method for Organ*; Dickinson, *The Art of Organ Playing*; Carl, *Master Studies for Organ*.
- Sightreading of a hymn and a trio.
- Three works from memory: a Prelude and Fugue by J.S. Bach, an adagio movement by any composer and a contemporary composition of the student's choice.

Voice

- Evidence of a pleasing voice with good tonal placement, breath control and flexibility.
- Previous study preferred but not required.
- Sightreading of folk tunes and hymns.
- Two songs (one from memory) demonstrating musical sensitivity, good intonation and clear diction.
- Suggested materials: Soprano—Brahms, *Wiegenlied*; Quilter (arr.), *Drink To Me Only With Thine Eyes*. Contralto—Burleigh (arr.), *Deep River*, Giordani, *Caro mio ben*. Tenor—Barber, *The Daisies*; Purcell, *Passing By*. Bass-Baritone—Franz, *Dedication*; Quilter (arr.), *Drink To Me Only With Thine Eyes*.
- Any selection of more difficult nature from standard operatic, oratorio or western art song repertoire.

Strings

All major and minor scales, two and three octaves.

Violin

- Study materials such as those by Mazas, Wohlfart, Kreutzer.
- A solo sonata from the Baroque era.
- Concerto movement by Viotti, Vivaldi, Accolay, etc.

Viola

- Study materials such as Wohlfart's *Foundation Studies*, Books 1 and 2.
- A solo sonata from the Baroque Era.

Violoncello

- Study materials such as those by Lee, Dotzauer or Duport.
- Goltermann, *Concerto No. 4*; J.S. Bach, *Arioso* (or work of equivalent difficulty and style).

Double Bass

- Study materials such as Simandl, Book I
- J.S. Bach, *Minuet in G*; Corelli, *Sarabande* (or work of equivalent difficulty and style).

Guitar

- Milan, *Pavanes* (any three).
- De Visée, *Suite in D*.
- Villa Lobos, *Preludes Nos. 1 and 4*.

Harp

- Any three of the following (or the equivalent in difficulty and style): Bochs, *Études*; Pozzoli, *Études*; Salzedo, *Études Modernes*; sonatas by Naderman or Krumpholtz; Grandjány, *Two French Folksongs*; Pratt, *Little Fountain*; Rénie, *Album Leaves*.

Woodwinds

Chromatic and all major scales, full range of instrument.

Sightreading of band or orchestral music, Class A or B.

Flute

- Study materials such as those by Boehm and Anderson.
- An unaccompanied solo by a Baroque composer.

Oboe

- Study materials such as Ferling's *Forty Études*.
- A standard solo sonata.

Clarinet

- Study materials such as those by Klose, Baermann, Lazarus or Rose.
- A standard solo by Brahms, Spohr, Saint-Saens, etc.

Bassoon

- Study materials from Weissenborn's *Method*, pp. 10-38.
- Mozart, *Concerto in B-flat*, K. 191.

Saxophone

- Study materials such as those by Karg-Elert, Massis, Traxler.
- A standard solo work.

Brass

All major scales, two octaves where possible.

Sightreading of band and orchestra music of Class A or B.

Trumpet/Cornet

- Study materials such as Arban's *Characteristic Studies*
- Haydn, *Concerto for Trumpet* (any movement).

French Horn

- Franz, *Method for Horn*.
- Mozart, any concerto movement.

Trombone/Baritone horn (Euphonium)

- Tyrell, *Forty Progressive Studies*.
- Blazevich, *Concerto Sketch No. 5*.

Tuba

- Arban, *Method* (bass clef; played one octave lower).
- Bach-Bell, *Air and Bourée* (or work of equivalent style and difficulty).

Percussion

Sightreading of orchestral excerpts.

Snare Drum: Selected technical rudiments.

Tympani:

- Tuning.
- Execution of single-stroke roll.

Mallet instruments

- All major and minor scales.
- I, IV, V arpeggios.
- A solo piece of the student's choice.

Final Admission to Program

Theory/Composition

Final admission in junior year; in addition to full audition requirements, candidates must submit a portfolio of compositions and/or analytical sketches before completion of sophomore year.

Music Therapy

Final admission in junior year; in addition to full audition requirements, an interview and evaluation of all credentials (including reports of clinical experience) must be completed before the end of sophomore year.

Performance

Provisional acceptance is determined by an Applied Music jury at the end of the freshman year unless a postponement to the middle of the sophomore year is requested by the major teacher. Full admission is delayed until completion of a sophomore recital and demonstration of a solid grasp of the technical aspects of the performing medium and genuine musicality and sensitivity.

Music History

Candidates must demonstrate excellence in writing and speaking. In addition to proven interest in music and demonstration of performance skills, candidates must maintain an excellent record in traditional academic disciplines.

Music Education

Final admission is granted only after an interview and review of credentials toward the end of the sophomore year.

Comprehensive Examination

At the end of the sophomore year, all students must demonstrate comprehensive musicianship in the performing primary, functional keyboard skills, theoretical and practical skills, secondary vocal skills and other materials germane to the student's concentration.

This examination is a basic part of all credentials submitted for junior status or for full admission to any of the degree programs.

Applied Music Requirements for Graduation

All music students must study with members of the college faculty.

Although the amount and extent of study in applied music varies with concentration, each music major is required to complete two applied music sequences, one in the performing skill on which his acceptance to the department was based and the other in a secondary medium. Either the primary or the secondary must be a keyboard instrument.

Students majoring in performance will present a recital before the end of the sophomore year and another in the senior year. Students majoring in music education will present a recital in the senior year.

Students are expected to accompany at a level of their ability as designated by their teachers and to participate actively in the musical life of the college and community.

All students, with the exception of first-semester freshmen, are expected to perform during a noon recital program at least once each semester of primary study.

Secondary instruction beyond the minimum requirements is available when schedules and other considerations allow.

Student Recital/Seminar Requirements for Graduation

Each week the department of Music sponsors mid-day performances by students and lecture/recitals by faculty and guests. Every music major must register for H 1005 029, *Student Recital/Seminar*, on a pass-fail basis, for every semester of attendance at Montclair State College.

Ensemble Requirements for Graduation

The ensemble policy is based on the principle that all students must perform in ensemble(s) every semester of their attendance at Montclair State College in order to assure the broadest possible experience in important ensemble repertoire and to assure that these ensembles have the needed instrumentation for successful performance. Although minimum requirements vary with the concentration, this principle is the overriding one.

Students may be assigned by the department chairperson to an ensemble in accordance with the needs of the department, regardless of the satisfaction by the student of his minimum requirements.

Vocalists who wish to participate in more than one vocal ensemble in a given semester must have the written permission of the primary teacher.

Where admission to a chamber ensemble is by audition and a student fails to gain admission, additional performance in a large ensemble may, with the chairperson's consent, be substituted.

Music Education: majors in voice, keyboard or guitar

- 6 semesters of choir
- 2 semesters of laboratory band
- 2 semesters of laboratory orchestra
- 2 semesters of chamber ensemble

Music Education: majors in stringed instruments (other than guitar)

- 6 semesters of orchestra
- 4 semesters of choir
- 2 semesters of chamber ensemble

Music Education: majors in brass, woodwinds, percussion

- 6 semesters of band
- 4 semesters of choir
- 2 semesters of chamber ensemble

Performance: majors in voice

- 8 semesters of choir
- 4 semesters of chamber ensemble
- 4 elective semesters

Performance: majors in guitar

- 8 semesters of chamber ensemble
- 4 semesters of choir
- 4 elective semesters

Performance: majors in stringed instruments (other than guitar)

- 8 semesters of orchestra
- 4 semesters of chamber ensemble
- 4 elective semesters

Performance: majors in brass, woodwinds, percussion

- 8 semesters of band
- 2 semesters of choir
- 3 semesters of chamber ensemble
- 3 elective semesters

Performance: majors in keyboard instruments

- 8 semesters of choir
- 5 semesters of chamber ensemble
- 3 elective semesters

Theory/Composition: majors in voice, guitar

- 4 semesters of choir
- 8 semesters of chamber ensemble
- 4 elective semesters

Theory/Composition: majors in stringed instruments (other than guitar)

- 8 semesters of orchestra
- 4 semesters of chamber ensemble
- 4 elective semesters

Music Therapy:

- 6 semesters using primary instrument
- 2 semesters using secondary instrument

Music History: majors in voice, guitar or keyboard

- 6 semesters of choir
- 2 elective semesters

Music History: majors in brass, woodwinds or percussion

- 6 semesters of band or orchestra
- 2 elective semesters

For the purposes of the above requirements, "chamber ensemble" includes Collegium Musicum, and all solo duet trio/etc., repertoire which does not duplicate materials studied for solo recital or jury performance.

Performance Dress Code

Since the department of Music has the training of future professional musicians as one of its major objectives, the music student is expected to dress as a professional whenever appearing before the public.

Mid-Day Recitals

Men: Dark suit, white shirt with collar, simple necktie; shoes and hose matching the suit. No informal attire is allowed.

Women: Simple dress or skirt and blouse; hose and dress shoes; simple costume jewelry is permitted but nothing that would be gaudy or distracting or that would call attention to itself

Solo Recitals

Men: Same as for ensemble wear (see below) or simple tuxedo with appropriate accessories.

Women: Formal gown; jewelry, hose and shoes appropriate to restraint in dress and avoidance of distraction.

Accompanists: Same as for ensemble wear (see below) or matching the attire of the soloist.

Ensembles

Men: Black or dark blue suit, solid color white collar shirt, with black, solid color four-in-hand tie; black shoes; black, over-the-calf hose.

Women: Black floor-length, solid color skirt, with either solid white long-sleeved blouse; hose, black shoes. Black pants suit, with white blouse is also acceptable.

Instrumental Rental

A fee of \$20 (subject to change) per semester is charged students who rent college-owned instruments. Summer rental is considered as a separate semester for this purpose.

Degree Requirements

All Majors

	Semester Hours
1005 029 Student Recital/Seminar, 8 semesters	0
1006 307/308 Music History I, II	6
1016 101, 102, 201, 202 Theory I, II, III, IV	12
1016 103, 104, 203, 204 Aural Skills I-IV	4
Secondary instrument (voice or piano)	0-4
Ensembles (see above)	4-8

Music Education Concentration

(in addition to requirements for all majors)

Applied Music	18
Primary Instrument I-VII	14
Secondary Instrument I-IV	4

Music Theory

1016 303, 304 Theory V—Counterpoint, Theory VI—Orchestration	6
---	---

Collateral Course

1902 105 Acoustics	3
--------------------	---

Additional Music Requirements (Vocal/Instrumental Majors)

0832 105, 205, 206, 306 Instrumental Methods (1 semester hour each)	4
0832 200 Introduction to Music Education	2
0832 334, 335 Choral Techniques	2 each
0832 132 Marching Band Techniques	2
0832 420 The Teaching of Music in Secondary Schools	3
Conducting	2
Senior Recital	0
Marching Band (two semesters of participation)	0
Practicum I, II	2

Additional Music Requirements (Keyboard Majors)

Same as for Vocal/Instrumental majors plus	
1016 310, 311 Keyboard Harmony I, II (2 semester hours each)	4
1005 5301 Chamber Ensemble Piano (two semesters)	0.5 ea.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. In addition, students must satisfactorily complete the course 0832 320 Teaching Music in the Elementary School.

Concentration in Performance: Voice

(in addition to requirements for all majors)

Applied Music	36
Primary/Major Instrument	28
1004 040 Master Class in Performance	4
1004 3101, 3102, 3103, 3104 Secondary Piano I-IV	4
Sophomore and Senior Recitals	0

Additional Music Requirements

1004 340, 342/3, 344/5, 346/7 Italian, French, German and English Repertory and Diction	8
--	---

Required Collateral and General Education Courses

French, Italian and German languages (2 semesters each)	18
1902 105 Acoustics	3

Concentration in Performance: Keyboard

(in addition to requirements for all majors)

Applied Music	32
Primary/Major Instrument	28
1004 040 Master Class in Performance	4
Sophomore and Senior Recitals	0

Music Theory

1016 303, 304 Theory V—Counterpoint, Theory VI—Orchestration	6
1016 310, 311 Keyboard Harmony I, II	2

Additional Music Requirements

1004 201, 202 Piano Literature	4
1004 335 or 429 Conducting	2
1004 439, 440 Piano Pedagogy I, II	4
OR	
Elective (choral)	2
1005 5301 Chamber Ensemble Piano (two semesters)	0.5 ea.

Required Collateral Course

1902 105 Acoustics	3
1005 5301 Chamber Ensemble Piano (two semesters)	0.5 ea.

Concentration in Performance: Instrumental Media

(in addition to requirements for all majors)

Applied Music	40
Primary/Major Instrument	28
1004 040 Master Class in Performance	4
1004 3101, 3102, 3103, 3104 Secondary Piano I-IV	4
1004 276, 227 Instrumental Literature I, II	4
Sophomore and Senior Recitals	0

Music Theory

1016 303, 304 Theory V—Counterpoint, Theory VI—Orchestration	6
---	---

Required Collateral Course	3
1902 105 Acoustics	3
Additional Music Requirements	6
1004 439 Piano Pedagogy I	2
1004 335 or 429 Conducting	2
Elective	2

Theory/Composition Concentration

(in addition to requirements for all majors)

Applied Music	20
Primary Instrument	8
Secondary Instrument	4
Instrumental Instruction	8

Music Theory and Composition 28

1016 303, 304 Theory V-Counterpoint, Theory VI-Orchestration	6
1016 412 Electronic Music Composition	3
1016 341, 342 Private Study I, II	4
1016 441, 442 Private Study III, IV	4
1016 401 Musical Composition	2
1016 310, 311 Keyboard Harmony I, II	2
Note: If piano is the student's secondary instrument, a music elective may be substituted.	

Electives	6
---------------------	---

Additional Music Requirements 5

1006 407 Music History III	3
1004 335 or 429 Elementary or Choral Conducting	2
1005 5301 Chamber Ensemble Piano (two semesters) For Keyboard Primaries Only	0.5 ea.

Required Collateral Course 3

1902 105 Acoustics	3
------------------------------	---

Music Therapy Major

(in addition to requirements for all majors)

Applied Music 14

Primary Instrument	8
Secondary Instrument	4
1004 3171, 3172 Secondary Guitar I, II	2

Music Theory 2

1016 401 Musical Composition	2
--	---

Additional Music Requirements 9

0832 105, 205, 206, 306 Strings, Brass, Woodwinds, Percussion (I semester hour each)	4
1004 335 or 429 Elementary OR Choral Conducting	2
1005 150 Influence of Afro-American Culture on Music OR 1005 160 Introduction to Music in World Cultures	3

Additional Music Therapy Requirements

1095 262, 263, 361, 362, 363, 364 Music Therapy Practicum I-VI	6
1095 260 Methods and Materials in Music Therapy	2
1095 3105 Piano Improvisation for the Music Therapist	1
1095 3106 Piano Accompanying Techniques for the Music Therapist	1

Professional Sequence 24

0842 331 Group Dynamics OR 1095 400 Music Therapy Training Group	3
1095 160 Introduction to Music Therapy I	2
1095 261 Therapy and Observation Skills for Music Therapy	2
1095 461 Music Therapy with Children	3

1095 462 Music Therapy with Adults	3
1095 463, 464 Psychological Foundations of Music I, II (2 semester hours each)	4
1095 465 Internship in Music Therapy	1
2001 201 Child Psychology	3
2001 365 Abnormal Psychology	3

Required Collateral and General Education

Courses 12

0831 410 Introduction to Art Therapy	3
2001 101 General Psychology I	3
2001 235 Psychology of Exceptional Children and Youth	3
2208 204 Sociology of the Family	3

Music History Concentration

(in addition to requirements for all majors)

Applied Music 8

Primary Instrument	4
Secondary Instrument	4

Music Theory 3

Elective	3
--------------------	---

Music History and Literature 18

1005 160 Introduction to Music in World Cultures	3
1006 462 Seminar in Music I	3
Electives	12
Thesis	0

Additional Music Requirement 1

1005 5301 Chamber Ensemble Piano (two semesters)- For Keyboard Primaries Only	0.5 ea.
--	---------

Required Collateral and General Education

Courses 48

German	12
1007 100 Introduction to Theatrical Medium	3
Elective in History OR Literature	3
Elective in Art History	3
Elective in Theatre History	3
1001 100 Introduction to Visual Arts	3
1503 172 Western World Literature	3
French I and II OR Italian I and II	6
0701 108 Computers and Programming	3
2205 142 Twentieth Century Global Civilization	3
0838 101 Contemporary Business	3
Elective	3

Courses of Instruction

H0832 105 STRING INSTRUMENTS I	1.0
Elementary playing skills, violin being the basic instrument for all who lack string experience; materials and methods for beginning string classes.	

H0832 132 MARCHING BAND TECHNIQUES	2.0
Methods, organization and planning. Drill design, playing, rehearsal techniques.	

H0832 200 INTRODUCTION TO MUSIC EDUCATION	3.0
Methodologies, techniques and materials of music education. Philosophi- cal and practical foundations and applications of learning theories <i>Prerequisites:</i> Sophomore music-major status.	

H 0832 201		
PRACTICUM IN MUSIC EDUCATION I	1.0	
Supervised observation and participation in public school music classes and activities.		
<i>Prerequisites: Music Major; permission of advisor.</i>		
H 0832 202		
PRACTICUM IN MUSIC EDUCATION II	1.0	
Development of teaching skills by observation of public school music instruction and by serving as a teacher's aide.		
<i>Prerequisites: Music major; W 0832 201; permission of advisor.</i>		
H 0832 205		
BRASS INSTRUMENTS	1.0	
Skills on trumpet, horn, trombone and other brasses; materials and procedures for teaching these instruments in beginning classes.		
H 0832 206		
WOODWIND INSTRUMENTS	1.0	
Skills on clarinet, flute, oboe and other woodwinds; materials and methods for teaching these instruments; organizing woodwind classes.		
H 0832 302		
TEACHING MUSIC IN ELEMENTARY GRADES K-6	3.0	
Principles, techniques, materials and methods. Kodaly, Orff, MMCP, Carabo-Cone; techniques germane to both the traditional and more innovative school structures; individualized instruction and techniques for small and large groups; the sequential curriculum in music education.		
<i>Prerequisite: H 1016 202.</i>		
H 0832 306		
PERCUSSION INSTRUMENTS	1.0	
Skills on snare drum, bass drum, timpani, cymbals, bells, etc; materials and methods for teaching these instruments in the classroom.		
<i>Prerequisite: H 1016 202.</i>		
H 0832 334		
CHORAL TECHNIQUES I	2.0	
Tone production, phrasing, enunciation, interpretation, testing and classification of voices, balancing parts, rehearsal routines, accompanying and conducting.		
<i>Prerequisite: H 1016 202.</i>		
H 0832 335		
CHORAL TECHNIQUES II-CONDUCTING	2.0	
Rehearsal and performance techniques involved in such matters as attack, release, interpretation, balance, historical style, blend.		
<i>Prerequisite: H 0832 334 or equivalent.</i>		
H 0832 420		
THE TEACHING OF MUSIC IN SECONDARY SCHOOLS	3.0	
Philosophy, aims, content and procedures of music teaching in the junior and senior high school; emphasis upon the teaching of the general music class and the incorporation of new methods; lesson plans and units of work for use in the classroom. Includes observation and participation.		
<i>Prerequisite: H 0832 320.</i>		
H 0832 439		
PIANO PEDAGOGY I	2.0	
Methods and materials of teaching piano for piano grades I through IV.		
<i>Prerequisite: Majors only, junior or senior standing.</i>		
H 0832 440		
PIANO PEDAGOGY II	2.0	
Methods and materials of teaching piano for piano grades V through VIII.		
<i>Prerequisites: Majors only, junior or senior standing, completion of H 0832 439.</i>		
H 0832 499		
INDEPENDENT STUDY IN MUSIC EDUCATION	1.0-4.0	
Project and/or study area planned with sponsoring faculty member.		
H 1004 020		
VOCAL ENSEMBLE	0.5	
Study through rehearsal and performance of vocal chamber music. Open to all.		
H 1004 030		
CHOIR	0.5	
H 1004 031		
ORCHESTRA	0.5	
H 1004 032		
BAND	0.5	
H 1004 033		
MARCHING BAND	0.5	
Study of field drill techniques, band arranging and rehearsal/performance procedures by participation in marching band.		
H 1004 034		
OPERA WORKSHOP	2.0	
Musical theatre studied through performance. Nature of dramatic music, problems of movement, make-up, costuming, props and scenery.		
<i>Prerequisite: Instructor's permission.</i>		
H 1004 035		
OPERA WORKSHOP II	2.0	
Continuation of H 1004 034.		
<i>Prerequisite: Instructor's permission.</i>		
H 1004 036		
ENSEMBLE PERFORMANCE	0.3	
7½ week ensemble performance in the student-teaching semester of the junior year. Music education majors only, primary ensemble.		
H 1004 037		
ENSEMBLE PERFORMANCE	0.2	
7½ week ensemble performance in the student-teaching semester of the senior year. Music education majors only, primary ensemble.		
H 1004 038		
COLLEGIUM MUSICUM I	0.5	
Study of early instruments: Viola da gamba, lute, recorder, cromorne, sackbut, organetto, psaltery, etc. Concert performance of Medieval, Renaissance, and early Baroque music.		
H 1004 040		
MASTER CLASS IN PERFORMANCE	0.5	
Performance of repertoire for coaching in interpretation, style, analysis, technique, etc. Required in conjunction with each course in the primary and major instrument.		
<i>Prerequisite: Primary instrument requirement must be met.</i>		
H 1004 100		
CLASS PIANO FOR NON-MUSIC MAJORS	3.0	
Basic skills and fundamental knowledge of the keyboard. A basic knowledge of music reading is helpful but not necessary.		
H 1004 103		
VOICE CLASS FOR THE NON-MUSIC MAJOR	3.0	
Study of singing through vocal exercises and the performance in class of English and American art, theatrical and popular songs.		

H 1004 3101 SECONDARY INSTRUMENT I-PIANO Keyboard skills including major and minor scales, arpeggios, and chord progressions, sightreading, transposition, harmonization, improvisation.	1.0	H 1005 462 PROJECT IN MUSIC II: OPERA STUDY TOUR Study tour to different locations described in Winter session brochure each time it is offered. Offered during Winter session only. Open to all. Enrollment limited to twenty students. Special fee required. <i>Prerequisite: Instructor's permission.</i>	3.0
H 1004 3102 SECONDARY INSTRUMENT II-PIANO Continuation of 1004 3101. <i>Prerequisite: H 1004 3101.</i>	1.0	H 1005 499 INDEPENDENT STUDY IN MUSIC Project and/or study planned with sponsoring faculty member.	1.0-4.0
H 1004 3103 SECONDARY INSTRUMENT III-PIANO Continuation of 1004 3102. <i>Prerequisite: H 1004 3102.</i>	1.0	H 1006 307 MUSIC HISTORY I Research method and music bibliography. Styles, genres and shaping forces of western music from the rise of polyphony in the Middle Ages through the music of Haydn and Mozart. <i>Prerequisites: H 1016 202, majors only, or instructor's permission.</i>	3.0
H 1004 3104 SECONDARY INSTRUMENT IV-PIANO Continuation of 1004 3103. A comprehensive examination must be passed at the end of the semester. <i>Prerequisite: H 1004 3103.</i>	1.0	H 1006 308 MUSIC HISTORY II Continuation of H 1006 307, beginning with Beethoven. The music of the romantic era as manifested in the nineteenth and twentieth centuries; major currents of the modern era. <i>Prerequisite: H 1006 307 or instructor's permission.</i>	3.0
H 1004 3171 SECONDARY INSTRUMENT GUITAR I Basic techniques of guitar playing including chording and melodic work.	1.0	H 1006 400, 401 SELECTED TOPICS IN MUSIC I, II Intensive study of a single composer or of a limited array of works. May be taken a second time. 7-week course. <i>Prerequisites: H 1006 307, 308 or instructor's permission.</i>	1.5 each
H 1004 3172 SECONDARY INSTRUMENT GUITAR II Continuation of H 1004 3171.	1.0	H 1006 407 MUSIC HISTORY III Major figures, forms, genres and styles from Debussy to the present. <i>Prerequisite: H 1006 307, 308, or instructor's permission.</i>	3.0
H 1005 029 STUDENT RECITAL All music majors must register for this number every semester in order to free their schedules for recital commitments.	no credit	H 1006 499 INDEPENDENT STUDY: MUSIC HISTORY AND LITERATURE Project and/or study planned with sponsoring faculty member. <i>Prerequisite: Instructor's permission.</i>	1.0-4.0
H 1005 100 INTRODUCTION TO MUSIC Expansion of musical awareness through live performance and directed listening.	3.0	H 1016 101 THEORY I Study of harmony, counterpoint, and musical analysis of small forms. Must be taken with H 1016 103. Meets for four hours weekly. <i>Prerequisite: Majors only or instructor's permission.</i>	3.0
H 1005 150 INFLUENCE OF AFRO-AMERICAN CULTURE ON MUSIC Ways in which Afro-American culture has affected the development of American folk and art music.	3.0	H 1016 102 THEORY II Continuation of H 1016 101. Meets for four hours weekly. Must be taken with H 1016 104. <i>Prerequisites: H 1016 101, majors only, or instructor's permission.</i>	3.0
H 1005 160 INTRODUCTION TO MUSIC IN WORLD CULTURES The cultural and artistic forces which shape the musics of the nonwestern world and the various folk and art musics resulting from those forces.	3.0	H 1016 103 AURAL SKILLS I Sight reading and dictation in major and minor modes, using diatonic chord progressions. Basic solfeggio. Must be taken with H 1016 101.	1.0
H 1005 209 INTRODUCTION TO JAZZ Jazz as an American phenomenon; musical materials as manipulated by jazz artists; the impact on American popular music, dance and theatre; early jazz players and developments.	3.0	H 1016 104 AURAL SKILLS II Continuation of H 1016 103. Must be taken with H 1016 102. <i>Prerequisite: H 1016 103.</i>	1.0
H 1005 236 THE AMERICAN MUSICAL Introduction to the varieties of style in music for the purpose of extending dramatic action, characterization and atmosphere in musicals, operettas and musical comedies. Representative works from 1927 to the present.	3.0	H 1016 150 FUNDAMENTALS OF MUSIC FOR THE NON-MAJOR Introduction to music notation: Reading of clefs, key signatures and their relationship to various modes; rhythm and meter; basic harmonic structures (intervals, triads, and seventh chords). Sight singing and dictation.	3.0
H 1005 309 THE ART OF JAZZ Development of jazz in America and abroad; sociological implications in American society and the impact of jazz upon contemporary composition.	3.0		

H 1016 201 THEORY III	3.0	Chromatic harmony; intermediate contrapuntal techniques; analysis of larger instrumental forms. Must be taken with H 1016 203. Meets for four hours weekly. <i>Prerequisites: H 1016 102, majors only, or instructor's permission.</i>
H 1016 202 THEORY IV	3.0	Continuation of H 1016 201. Meets four hours weekly. Must be taken with H 1016 204. <i>Prerequisites: H 1016 201. Music majors only or instructor's permission.</i>
H 1016 203 AURAL SKILLS III	1.0	Chromatic and non-tonal sight reading and dictation. "Fixed do" solfeggio. Must be taken with H 1016 201. <i>Prerequisite: H 1016 104.</i>
H 1016 204 AURAL SKILLS IV	1.0	Continuation of H 1016 203. Must be taken with H 1016 202. <i>Prerequisite: H 1016 203.</i>
H 1016 303 THEORY V-COUNTERPOINT	3.0	Study of part writing, species and free contrapuntal practices and techniques. Contrapuntal and layer analysis. <i>Prerequisite: H 1016 202, majors only.</i>
H 1016 304 THEORY VI-ORCHESTRATION	3.0	Study of compositional and arranging techniques appropriate to writing for individual instruments and voices and for ensembles of various size and character. <i>Prerequisites: H 1016 202, majors only.</i>
H 1016 310 KEYBOARD HARMONY FOR PIANO MAJORS I	1.0	Skills pianists will need as professional performers, therapists, and educators. Harmonization, transposition, improvisation, realization of figured bass, reduction of open scores and sightreading. <i>Prerequisite: Status as a keyboard major.</i>
H 1016 311 KEYBOARD HARMONY FOR PIANO MAJORS II	1.0	Continuation of H 1016 310. <i>Prerequisite: H 1016 310.</i>
H 1016 341 PRIVATE STUDY IN COMPOSITION I	2.0	Restricted to majors in Theory/Composition. <i>Prerequisite: H 1016 202.</i>
H 1016 342 PRIVATE STUDY IN COMPOSITION II	2.0	Restricted to majors in Theory/Composition. <i>Prerequisites: H 1016 341, majors only.</i>
H 1016 401 MUSIC COMPOSITION	2.0	Practical exploration of the various trends in the 20th century composition. <i>Prerequisite: H 1016 202.</i>
H 1016 405 SELECTED TOPICS IN THEORETICAL STUDIES	1.0	Research and discussion of selected topics in theoretical studies focusing on stylistic and analytical problems. To be offered as short term courses. May be repeated for credit. <i>Prerequisite: H 1016 304.</i>
H 1016 412 ELECTRONIC MUSIC COMPOSITION	3.0	Exploration of electronic music techniques; practical experience in both concrete and synthesizer music. <i>Prerequisite: H 1016 202.</i>
H 1016 443 PRIVATE STUDY IN COMPOSITION III	2.0	Restricted to majors in Theory/Composition
H 1016 444 PRIVATE STUDY IN COMPOSITION IV	2.0	Restricted to majors in Theory/Composition. <i>Prerequisite: H 1016 443</i>
H 1016 499 INDEPENDENT STUDY IN THEORY/COMPOSITION	1, 0-4 0	Project and/or study planned with sponsoring faculty member <i>Prerequisite: H 1016 202.</i>
H 1095 160 INTRODUCTION TO MUSIC THERAPY	2.0	Survey of use of music therapy with various populations and other topics of relevance to the music therapist.
H 1095 260 METHODS AND MATERIALS IN MUSIC THERAPY	2.0	A variety of music activities and how to adapt them for music therapy settings; leadership techniques; simple instruments used in therapy.
H 1095 261 THERAPY AND OBSERVATION SKILLS FOR MUSIC THERAPY	2.0	Observing, measuring and recording behavior in a music therapy setting and other aspects of planning for music therapy sessions as well as observing music therapy sessions.
H 1095 262 MUSIC THERAPY PRACTICUM I	1.0	Improvement of the functioning of a client or group of clients with physical or mental disabilities through the use of music therapy. Discussion of the clients and their progress and other aspects of clinical work.
H 1095 263 MUSIC THERAPY PRACTICUM II	1.0	Continuation of H 1095 262.
H 1095 361 MUSIC THERAPY PRACTICUM III	1.0	Continuation of H 1095 263.
H 1095 362 MUSIC THERAPY PRACTICUM IV	1.0	Continuation of H 1095 361.
H 1095 363 MUSIC THERAPY PRACTICUM V	1.0	Continuation of H 1095 362.
H 1095 364 MUSIC THERAPY PRACTICUM VI	1.0	Continuation of H 1095 363.

H 1095 400
MUSIC THERAPY TRAINING GROUP 1.5
Expression and exploration of feelings through use of creative media. Particular attention to process so that experience may be generalized and subsequently used with client groups. Offered on a pass/fail basis only.
Prerequisite: Permission of instructor.

H 1095 402
GUIDED IMAGERY AND MUSIC (GIM) 1.5
Introduction to the facets of Guided Imagery and Music. Theory and process of the technique will be explored verbally and experientially. Equivalent (with specially arranged weekend experience) to Phase I GIM Training, sponsored by ICM Training Seminars, Baltimore, MD.

H 1095 461
MUSIC THERAPY WITH CHILDREN 3.0
Ways in which music and the therapist may be used to influence the behavior of children, the mentally retarded, and the physically disabled.
Prerequisite: Senior standing in Music Therapy.

H 1095 462
MUSIC THERAPY WITH ADULTS 3.0
Ways in which music therapy may be used in working with adult psychiatric patients, addictions, offenders, and geriatrics; setting up a music therapy program.
Prerequisite: Senior standing in Music Therapy.

H 1095 463
PSYCHOLOGICAL FOUNDATIONS OF MUSIC I 2.0
The basic literature concerning psychological research in music, with emphasis on research techniques and interpretation of data. Findings will be used to discuss current ideas and practices in music therapy, performance, and music education.
Prerequisite: Junior standing in Music Therapy major.

H 1095 464
PSYCHOLOGICAL FOUNDATIONS OF MUSIC II 2.0
The emotional correlates of the musical experience explored through research findings, psychological testing and inquiry, and philosophy. Implications of current theories applied to practices in music therapy, performance, and music education.
Prerequisite: H 1095 463.

H 1095 465
INTERNSHIP IN MUSIC THERAPY 1.0
Six months clinical training as a music therapy intern in a training program approved by the National Association for Music Therapy.
Prerequisite: Completion of all music therapy course work leading to a baccalaureate degree or equivalent.

H 1095 499
INDEPENDENT STUDY IN MUSIC THERAPY 0.5-4.0
Project and/or study planned with sponsoring faculty member.

H 1095 3105
PIANO IMPROVISATION FOR THE MUSIC THERAPIST 1.0
Improvisation including basic Nordoff-Robbins techniques.
Prerequisite: H 1004 3104 or its final examination.

H 1095 3106
PIANO ACCOMPANYING TECHNIQUES FOR THE MUSIC THERAPIST 1.0
Continuation of H 1095 3105 and completion of songs.
Prerequisite: H 1095 3105.

H 1099 450
INTRODUCTION TO PERFORMING ARTS MANAGEMENT I 3.0
Structures of performing arts organizations in the U.S.
Prerequisites: 9 semester hours in art appreciation or applied work, or demonstrated interest in the arts or permission of instructor or department.

H 1099 451
INTRODUCTION TO PERFORMING ARTS MANAGEMENT II 3.0
Problems and theories of arts management for performing groups in the U.S.; marketing, production, fund-raising and other aspects of operation.
Prerequisite: H 1099 450 or instructor's permission.

Philosophy and Religion

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Michael Kogan

Taking courses in philosophy and religious studies means gaining a greater ability to think clearly and independently about the central issues of human life. These studies present the occasion and the means to reflect critically on basic values and beliefs. The courses complement other major programs by enhancing awareness of the philosophical, ethical and religious elements and implications of other academic studies.

Both areas can be taken as a major leading to a Bachelor of Arts degree. They are also good second majors to enrich a liberal arts interest. A minor is offered in both programs. Each major is excellent preparation for later graduate and professional work.

Philosophy Major

Required Courses

	Semester Hours
Fields of Philosophy (even course numbers)	15
History and Movements (odd course numbers)	15
1509 331 Ancient Philosophy	3
1509 333 Descartes to Kant	3
Electives in History and Movements	9
Seminar in Philosophy (select one)	3

Philosophy Minor

Required Courses (18 semester hours)

	Semester Hours
Fields of Philosophy (even course numbers)*	6-12
History and Movements in Philosophy (odd course numbers)*	6-12

*Consult with a departmental advisor for the choice of courses.

Religious Studies Major

Required Courses

1599 100 Religions of the World	3
1599 401, 403 Philosophical Backgrounds of Western Religion I, II	6

Electives (Departmental)

Select 21 semester hours from the appropriate list to be obtained from the department 21

Seminar in Religious Studies (select one) 3

Religious Studies Minor

Required Courses

- 1599 101 Introduction to Religion 3
1599 460, 462, 465, 467 Seminars in Religious Studies 3

Electives (Departmental)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Courses of Instruction

- R 1509 100
INTRODUCTION TO PHILOSOPHY 3.0
The nature, scope, methods, basic problems and major types of philosophy.

- R 1509 102
ETHICS 3.0
The nature of ethical judgments, the meaning of moral concepts, the conditions of moral responsibility and the methodological presuppositions of ethical theories.

- R 1509 104
SOCIAL AND POLITICAL PHILOSOPHY 3.0
The nature of society and the state, their relation to each other and to the individual, and an evaluation of some main political and social ideals.

- R 1509 106
LOGIC 3.0
The forms of deductive and inductive argument in traditional logic; the fundamentals of modern formal logic.

- R 1509 202
ETHICS AND BUSINESS 3.0
A study of the meaning of morality in modern world of business. Course contains balance of theory and practice as it examines behavior of business against background of conflicting ethical theory.

- R 1509 204
MORALS AND MEDICINE 3.0
A study of moral decision making in regard to specific moral problems arising in such areas of contemporary medical research and practice as experimentation on human subjects, euthanasia, abortion, information rights of patients, and eugenic sterilization.

- R 1509 231
AMERICAN PHILOSOPHY 3.0
The major American philosophers and philosophical movements, with emphasis on Peirce, James, Royce, and Dewey.

- R 1509 233
CONTEMPORARY PHILOSOPHERS 3.0
The major movements in contemporary philosophy, studied through writings of leading exponents.

- R 1509 235
MARX AND MARXISM 3.0
The philosophy of Marx with special attention to his Hegelian background, his concept of man, and the genesis of his social and political philosophy. Engels, Lenin and contemporary existentialist marxism are considered briefly.

- R 1509 237
ORIENTAL PHILOSOPHY 3.0
Philosophical interpretations of experience and reality in representative movements of eastern thought

- R 1509 239
EXISTENTIALISM 3.0
The major themes and concepts of existentialism in selected writings of the existentialist philosophers.

- R 1509 260
PHILOSOPHIES OF ART 3.0
The major philosophies of art in the history of western thought. The conceptual network of ideas of the thinker in question will be delineated, and connections shown between the thinker and the philosophical and artistic themes of that period.

- R 1509 262
PHILOSOPHY OF RELIGION 3.0
The nature and shape of religious experience, criteria for meaning within religious thought and language. Metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death.

- R 1509 264
CRITICAL REASONING AND ARGUMENT 3.0
An intermediary level course, concentration upon argumentation and rhetorical devices as they actually function in every day conversation, philosophical discussion, forensic debate, etc. Arguments will be examined with an eye to penetrating purely formal structure and discovering the underlying dynamics which contribute to cogency in a given context.

- R 1509 266
PHILOSOPHY OF SCIENCE 3.0
The epistemological character of scientific thought and the relevance of scientific findings for the clarification and eventual resolution of traditional philosophical issues.

- R 1509 268
PHILOSOPHICAL THEORIES OF HISTORY 3.0
Speculative and critical theories of history, with special attention to epistemological issues such as the nature of historical understanding and explanation, the objectivity of historical knowledge, historical causation and determinism.

- R 1509 290
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy Topics announced each semester.

- R 1509 292
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy Topics announced each semester.

- R 1509 295
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.

- R 1509 310
THEORIES OF KNOWLEDGE AND EXPERIENCE 3.0
The major issues and theories concerning the relationship between knowledge, experience and reality.

- R 1509 316
PHILOSOPHY OF LAW 3.0
An introduction to the philosophical issues of jurisprudence. Close attention is given to the status and nature of law, the concept of equality and the limits of law.

- R 1509 331
ANCIENT PHILOSOPHY 3.0
The major philosophical systems and movements from the pre-Socratics to Plotinus, with special emphasis on Plato and Aristotle.
- R 1509 333
DESCARTES TO KANT 3.0
The major philosophical systems and movements from the Renaissance to Kant.
- R 1509 335
NINETEENTH CENTURY PHILOSOPHY 3.0
A study of the major philosophical figures and movements of the nineteenth century, with special emphasis on Hegel and the Hegelian tradition.
- R 1509 390
FIELDS OF PHILOSOPHY-SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Topics announced each semester.
- R 1509 395
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.
- R 1509 424
SEMINAR IN PHILOSOPHY 3.0
Cooperative research seminars in major movements, problems, philosophers or works. Topics announced each semester.
- R 1509 444, 446, 447, 449
INDEPENDENT STUDY IN PHILOSOPHY 3.0-12.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.
- R 1599 100
RELIGIONS OF THE WORLD 3.0
The major religious traditions, with emphasis on basic beliefs and on the nature and diversity of religious awareness.
- R 1599 101
INTRODUCTION TO RELIGION 3.0
An inquiry into religious questions and expressions, their implications, and their critical appreciation and assessment.
- R 1599 102
HISTORY OF WESTERN RELIGION 3.0
The theological and ecclesiastical developments of the major living religions of the western world. Emphasis on Judaism and Christianity.
- R 1599 103
RELIGION AND MORAL ISSUES 3.0
Ethical issues as discussed by representative thinkers of the major religious traditions.
- R 1599 160
RELIGION OF THE EIGHTIES 3.0
The contemporary religious scene with special attention to the new modes of religious experience and their relation to the institutional religious structures.
- R 1599 200
OLD TESTAMENT: GENESIS TO JOSHUA 3.0
The evolution of the ancient Hebrew world view as developed in the Biblical books covering the early period of Israelite history. The course includes a close reading of the books of Genesis, Exodus and Numbers, comparison with contemporary Middle Eastern religious texts and study of the biblical story from the creation through the career of Moses (circa 1250 B.C.).
- R 1599 202
OLD TESTAMENT: JOSHUA TO DANIEL 3.0
The history and theology of Israelite religion as seen in fifteen biblical books covering the middle and later periods of ancient Hebrew thought (1250-165 B.C.).
- R 1599 204
NEW TESTAMENT: JESUS AND THE GOSPELS 3.0
The story of Jesus of Nazareth as told in the gospels of Mark and Matthew. The course explores Old Testament backgrounds, Jesus' place in the Jewish religious context of first century Israel, the question of the historical Jesus and the origins of and relationships between the various gospel traditions.
- R 1599 206
NEW TESTAMENT: PAUL AND THE EARLY CHURCH 3.0
A close study of Luke-Acts, John, selected letters of Paul and other later epistles. The course explores the development of the theology and institutions of the early church as revealed in New Testament documents of the first and early second centuries.
- R 1599 210
RELIGIONS OF THE NORTH AMERICAN INDIANS 3.0
An introduction to the religious traditions and spirituality of the American Indian peoples.
- R 1599 212
ORIENTAL RELIGIONS 3.0
The cultural and theological bases for the faith and practice of major eastern religions-Buddhism, Confucianism, Hinduism, Taoism.
- R 1599 221
RELIGION AND CULTURE 3.0
The interrelation of religion and culture in the formulation of human values and views, life styles and institutions.
- R 1599 223
RELIGION IN AMERICA 3.0
The growth and development of various religious movements-Protestant, Catholic, Jewish, Muslim, and sectarian minorities - from colonial times to the present.
- R 1599 225
RELIGION AND SOCIAL CHANGE 3.0
The impact of economic, social and political movements on religious belief and the ways in which religion has both furthered and impeded social development.
- R 1599 231
ORIENTAL PHILOSOPHY 3.0
Philosophical interpretations of experience and reality in representative movements of eastern thought.
- R 1599 263
RELIGION AND PSYCHOLOGY I 3.0
The views of faith and the religious person reached by such major psychological approaches as the Freudian, neo-Freudian, analytic-ego, existential and Jungian. The implications of such psychology for Jewish, Catholic, and Protestant believers and religious thinkers.
- R 1599 265
RELIGION AND PSYCHOLOGY II 3.0
Selected psychological investigations and/or theories of religious phenomena; the implications for constructive theology and positive religious response.

R 1599 267
WOMEN IN RELIGION 3.0
 Focuses on women's own experience in religions and the various perspectives of women held by both Eastern and Western religious traditions. The course deals with questions such as the nature of women, patriarchy and religion, and roles of women in religions.

R 1599 269
DEATH AND DYING: RELIGIOUS PERSPECTIVES 3.0
 This course is designed to give the student opportunity to study cross cultural religious and philosophical attitudes toward death and the procedures surrounding death. Material for the course will cover rituals of death and dying in both eastern and western religious traditions as well as "secular" rituals associated with death.

R 1599 273
THE HOLOCAUST: RELIGIOUS PERSPECTIVES 3.0
 A study of Nazi extermination of 6,000,000 Jews during World War II and the moral and religious issues raised by this event.

R 1599 300
CLASSICS OF WESTERN RELIGIOUS THOUGHT 3.0
 Selected works of significant theologians of the western tradition on issues such as the nature of God, Christology, Soteriology, Ecclesiology, Theodicy, etc.

R 1599 350
SELECTED STUDY IN WORLD RELIGIONS 3.0
 Topics announced each semester.

R 1599 352
SELECTED STUDY IN RELIGION 3.0
 Topics announced each semester.

R 1599 355
SELECTED STUDY IN RELIGION AND CULTURE 3.0
 Topics announced each semester.

R 1599 357
SELECTED STUDY IN RELIGIOUS THOUGHT 3.0
 Topics announced each semester.

R 1599 401
PHILOSOPHICAL BACKGROUNDS OF WESTERN RELIGION I 3.0
 The interrelationships of western religion with philosophy from the pre-Socratics through the Middle Ages. The emergence of classical fields of philosophy.

R 1599 403
PHILOSOPHICAL BACKGROUNDS OF WESTERN RELIGION II 3.0
 The interrelationship of western religion with philosophy in the Renaissance, enlightenment and modern period. The emergence of the autonomous spirit of criticism.

R 1599 462
SEMINAR IN RELIGION 3.0
 Cooperative research seminar in major movements, problems, theologians.

R 1599 465
SEMINAR IN RELIGION AND CULTURE 3.0
 Cooperative research seminars in major movements, problems, theologians. Topics announced each semester.

R 1599 467
SEMINAR IN RELIGIOUS THOUGHT 3.0
 Cooperative research seminars in major movements, problems, theologians or works. Topics announced each semester.

R 1599 490
INDEPENDENT STUDY IN RELIGION 3 0-12 0
 Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.

R 1599 492, 495, 497
INDEPENDENT STUDY IN RELIGION 3.0-12.0
 Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.

Physical Education, Recreation and Leisure Studies

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Joan Schleele

Physical Education Program

Physical fitness is an essential element in each person's life. Those who graduate with the Bachelor of Science degree in Physical Education may choose either teacher education or adult fitness, a non-teaching concentration. Students concentrate within the major in a variety of areas which equip them for employment in schools, agencies or corporations where fitness is recognized as essential. Physical Education gives students a broad range of activities which develop self-expression and skills for leisure, as well as a high level of physical fitness.

Physical Education (Teacher Education)

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

The Physical Education department has specific requirements for admission to the Teacher Education program. Contact the Department for details.

Minimum grade point average, 2.67 in physical education specialization courses.

Minimum 15 semester hours in specializations by the end of sophomore year. Transfer students need a minimum of 6 semester hours in physical education courses at Montclair State College.

Required Courses

	Semester Hours
0835 100 Orientation to the Physical Education Profession	1
0835 220 Physiology of Exercise	2
0835 221 Kinesiology	2
0835 222 Basic Motor Learning	2
0835 243 Organization and Administration of Physical Education	2

0835 351	Adapted Physical Education	3
0835 352	Development and Philosophy of Physical Education (Juniors and seniors only)	3

Activity Courses 17

Collateral Courses:

0837 101	Health for Personal Living	3
1905 107	College Chemistry I	2
1905 108	College Chemistry II	2
0401 240	Mammalian Anatomy and Physiology I	3
0401 241	Mammalian Anatomy and Physiology II	3
0835 244	Physical Education Field Experience	1
0835 355	Measurement and Evaluation in Physical Education (Juniors and seniors only)	3

Specializations Within the Major

Students are required to select a specialization from one of the following. Each requires 15 semester hours of course work.

Individualized Fitness Programs for Specific Populations

Required Courses

	Semester Hours
0879 251 Aerobic Activities	1
0879 257 Weight Training and Conditioning	1
Select one	
0879 263 Jogging	1
0879 278 Yoga	1

Electives (Departmental)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Coaching

Required Courses

0835 150	Principles and Practices of Emergency Care	2
0835 226	Coaching Principles and Problems	3
0835 227	Social Problems in Sport	3
OR		
0837 353	Psychology of Sport	3
Select at least 1 but no more than 2		
0835 301	Coaching Field Hockey	2
0835 303	Coaching Basketball	2
0835 304	Coaching Softball	2
0835 306	Coaching Baseball	2
0835 308	Coaching Football	2
0835 309	Coaching Soccer	2
0835 310	Coaching Swimming and Diving	2
0835 313	Men's Competitive Gymnastics in Schools	2
0835 314	Women's Competitive Gymnastics in Schools	2
0835 317	Coaching Volleyball	2
0835 322	Coaching Golf	2
0835 330	Coaching Tennis	2
0835 332	Coaching Wrestling	2
0835 333	Coaching Track and Field	2

Electives (Departmental)

Select 3-5 semester hours from the appropriate list to be obtained from the department 3-5

Athletic Training

Required Courses

0835 223	Basic Prevention and Care of Athletic Injuries	3
0835 323	Advanced Prevention and Care of Athletic Injuries	3
0835 379	Internship in Athletic Training	4

Electives (Departmental)

Select 5 semester hours from the appropriate list to be obtained from the department 5

Individual Contract

Individualized 15 semester hour program prepared in consultation with an advisor and approved by the department chairperson if existing specialization areas do not meet the student's needs. This specialization must be approved prior to any course selection.

Additional Electives (All Specializations)

Select one with permission from advisor and department chairperson.

		Semester Hours
0835 380	Internship in Physical Education	4-8
0835 381	Cooperative Education in Physical Education	4-8
0835 399	Independent Study in Physical Education	1-6
0835 492	Selected topics in Physical Education	1-3

Concentration Within the Major

Adult Fitness (Non-Teaching Certification)

Required Courses

		Semester Hours
0835 100	Orientation to the Physical Education Profession	1
0835 220	Physiology of Exercise	2
0835 221	Kinesiology	2
0835 222	Basic Motor Learning	2
0835 243	Organization and Administration of Physical Education	2
0835 246	Field Experience in Adult Fitness	1
0835 351	Adapted Physical Education	3
0835 352	Development, Philosophy and Principles of Physical Education	3

Activity Courses 17

Theory Specialization Core 25-27

Select one

0835 150	Principles and Practices of Emergency Care	2
0835 223	Basic Prevention and Care of Athletic Injuries	3

Select one

0835 375	Foundations and Practices in Cardiac Rehabilitation	3
0835 340	Fitness and the Aging Process	4

Required

0835 380	Internship in Physical Education	8
0835 381	Cooperative Education in Physical Education	8
Select one		
0838 101	Contemporary Business	3
1306 182	Nutrition	3
0842 331	Group Dynamics	3
0509 340	Introduction to Marketing	3

Collateral Courses	16
0837 101 Health for Personal Living	3
1905 107 College Chemistry I	2
1905 108 College Chemistry II	2
0401 240 Mammalian Anatomy and Physiology I	3
0401 241 Mammalian Anatomy and Physiology II	3
0835 355 Measurement and Evaluation in Physical Education (Juniors and seniors only)	3

Physical Education and Health Dual Teacher Certification Requirements

Required Courses

Physical Education Theory	15
(same as for Physical Education)	
Activity	17
(Same as for Physical Education)	
Health (Health for Personal Living is included)	24
0837 213 Perspectives on Drugs	3
0837 290 Human Sexuality	3
0837 401 Teaching of Health	3
0837 411 The School Health Program	3
Select One	
0837 210 Consumer Health	3
0837 220 Mental Health	3
0837 240 Foundations of Environmental Health	3
Select Two	
0837 307 The Study of Human Disease	3
0837 315 Community Health	3
or	
any other 0837 Health Profession course with advisement.	

Collateral Courses	16
0837 101 Health for Personal Living	3
1905 107 College Chemistry I	2
1905 108 College Chemistry II	2
0401 240 Mammalian Anatomy and Physiology I	3
0401 241 Mammalian Anatomy and Physiology II	3
0835 355 Measurement and Evaluation in Physical Education (Juniors and seniors only)	3

Professional Sequence for Teacher Education

The sequence is the same as for Physical Education Major *except* both Health Teaching and Physical Education Teaching are required in the supervised student teaching.

Recreation and Leisure Studies Program

As more leisure time becomes available, the opportunity for leadership in both the public and private areas of recreation and leisure enterprises grows. A student who enrolls in the department's program can earn a Bachelor of Science degree in various areas such as commercial recreation and tourism, community recreation and leisure services, outdoor recreation and recreation resource management or therapeutic recreation. Each of these concentrated areas of study is designed to prepare the student for either immediate entry into the profession or graduate study. Emphasis is placed on developing leadership skills for supervisory and management levels.

Courses are also open as electives for those majoring in other fields. Here the emphasis is placed on the role of recreation and leisure in life-planning and community service.

Recreation and Leisure Studies Major

Required Courses

	Semester Hours
2103 123 Leadership Techniques in Social Recreation	2
2103 124 Introduction to and History of Recreation and Leisure Services	4
2103 225 Program Planning in Recreation and Leisure	3
2103 228 Recreation for Special Populations	3
2103 322 Philosophy of Recreation and Leisure	2
2103 334 Research Methods in Recreation and Leisure Services	3
2103 365 Technical Design of Recreation and Park Areas & Facilities	3
2103 430 Management of Recreation and Leisure Services	4
2103 437 Senior Seminar	2
2103 489 Fieldwork in Recreation and Parks	14
Recreation concentration students are required to select an 18 semester hour concentration in their major.	

Collateral Courses

0502 200 Accounting for Non-Business Majors	3
1506 441 Group Discussion and Leadership	3
2204 100 Introduction to Economics	3
2001 260 Social Psychology	3

Concentrations Within the Major

Commercial Recreation and Tourism

Required Courses

	Semester Hours
2103 340 Introduction to Commercial Recreation and Tourism	3
2103 342 Delivery of Commercial Recreation and Tourism Services	3
2103 346 Tourism and Commercial Recreation, Planning, Development, and Analysis	3
Select One	
0603 280 Elements of Public Media	3
1506 271 Interpersonal Communication I	3
2208 407 Sociology of the Mass Media	3
Select One	
0509 340 Introduction to Marketing	3
0509 344 Advertising Media	3
0844 208 Salesmanship	3
Select One	
2206 204 Principles of Land Use	3
0506 335 Small Business Management	3
0506 433 Entrepreneurship and Innovation	3
0701 107 Computers and Society	2

Community Recreation and Leisure Services

Required Courses

2103 250 School - Community Recreation	3
2103 352 Marketing Techniques in Recreation and Leisure Services	3
2103 312 Budget and Finance in Recreation and Parks	3
2103 367 Management and Maintenance of Recreation and Park Areas and Facilities	3

Electives

Select One	
2204 308 Public Finance	3
2207 311 Governmental Budgeting	3
2204 204 Labor Economics	3

Select One		
2207 302	Public Opinion and Pressure Groups	3
2207 309	Urban Politics	3
2103 252	Recreation Needs of Urban Society	3

Outdoor Recreation and Recreation Resource Management

Outdoor Recreation Planning and Design

Required Courses

2103 360	Outdoor Recreation Planning	3
2103 365	Technical Design of Recreation and Park Areas and Facilities	3

Select Two

2103 346	Tourism and Commercial Recreation, Planning, Development, and Analysis	3
1914 250	Map Reading and Cartography	3
1914 251	Aerial Photograph Interpretation	3

Select Two

2103 367	Management and Maintenance of Recreation and Park Areas and Facilities	3
4922 341	History of City Form	3
4922 400	Designing Learning Environments	3

OR:

Outdoor Recreation and Park Management

Required Courses

2103 312	Budget and Finance in Recreation and Parks	3
2103 361	Implementation of Outdoor Recreation Programs	3
2103 360	Outdoor Recreation Planning	3
2103 367	Management and Maintenance of Recreation and Park Areas and Facilities	3

Select One

2206 203	Our Finite Earth: Population and Resources	3
2207 302	Public Opinion and Pressure Groups	3
2103 346	Economics of Outdoor Recreation and Tourism	3

Select One

2206 201	Climatology	3
1914 221	Conservation of Natural Resources	3
0401 426	New Jersey Flora	4

OR:

Outdoor Program Implementation and Interpretive Services

Required Courses

2103 360	Outdoor Recreation Planning	3
2103 361	Implementation of Outdoor Recreation Programs	3

Select 6 semester hours

0843 501	Outdoor Teaching for Environmental Education	3
0843 462	Practicum in Camping Education and Administration	3
0843 495	Workshop Utilizing Natural Environments	1
0843 496	Field Studies in Humanities and Natural Science	1

Select 6 semester hours

0843 497	Field Studies in Social Studies and Outdoor Recreation	1
0835 224	Camping and Outdoor Education	2
1914 221	Conservation of Natural Resources	3
0401 370	Principles of Ecology	3

OR

General Outdoor Recreation

Required Courses

2103 360	Outdoor Recreation Planning	3
----------	-----------------------------	---

Select One

2103 365	Technical Design of Recreation and Park Areas and Facilities	3
1914 250	Map Reading and Cartography	3
1914 251	Aerial Photograph Interpretation	3

Select One

2103 346	Economics of Outdoor Recreation and Tourism	3
2206 109	The Human Environment	3
2206 203	Our Finite Earth: Population and Resources	3
2207 302	Public Opinion and Pressure Groups	3

Select One

2103 367	Management and Maintenance of Recreation and Park Areas and Facilities	3
0401 370	Principles of Ecology	3
2206 201	Climatology	3
1914 221	Conservation of Natural Resources	3

Select 3 semester hours

0843 501	Outdoor Teaching for Environmental Education	3
0843 462	Practicum in Camping Education and Administration	3
0843 495	Workshop Utilizing Natural Environments	1
0843 496	Field Studies in Natural Science	1

Select 3 semester hours

2103 361	Implementation of Outdoor Recreation Programs	3
0843 497	Field Studies in Social Studies and Outdoor Recreation	1
0843 224	Camping and Outdoor Education	2

Therapeutic Recreation

Required Courses

2103 271	Clinical Experiences in Therapeutic Recreation (Taken three times for 1 semester hour each)	3
2103 370	Introduction to Therapeutic Recreation	3
2103 372	Recreation and Rehabilitation Services	3
2103 377	Programming and Supervision in Therapeutic Recreation	3

Six semester hours by advisement, plus 6 semester hours of Mammalian Anatomy and Physiology 12

Courses of Instruction

Physical Education

80835 100
ORIENTATION TO THE PHYSICAL EDUCATION PROFESSION 1.0
A professional orientation and an introduction to the breadth of the field of physical education in schools, industry and community agencies.

80835 101
FIELD HOCKEY 1.0
The purpose of the course is to identify the basic skills, strategy and techniques of team play. Emphasis will be placed on individual skill development, team techniques, strategies and the application of these in game situation.

80835 102
SOCCER 1.0
The history, development and present status of the sport. Basic skills game strategy, rules, terminology and specifics concerning class organization, safety and evaluation will be presented.

8 0835 103			
BASKETBALL	1.0		
The basic elements and concepts of offensive and defensive strategy and the rules of basketball will be included			
8 0835 104			
SOFTBALL	1.0		
Skills, techniques, rules and concepts of team play and strategy essential to this sport and playing the game.			
8 0835 106			
BASEBALL	1.0		
Methods, theory, skill testing and class organization for effective teaching of baseball.			
8 0835 108			
FOOTBALL	1.0		
The history, development and present status of the sport, basic skills and game strategy, rules and specific techniques concerning class organization, safety and evaluation.			
8 0835 110			
AQUATICS	1.0		
For those with a minimum amount of aquatic knowledge and skill. Swimming strokes, water stunts and springboard diving. Organization for teaching groups and safety precautions.			
8 0835 111			
LIFESAVING	1.0		
Developing individual skill and confidence in lifesaving and water safety skills. Open to undergraduate women and men.			
<i>Prerequisites: (1) Perform standing front dive, (2) swim 440 yds. continuously using various strokes, (3) dive from surface to minimum depth of six feet and swim 15 feet underwater, (4) tread water one minute.</i>			
8 0835 112			
WATER SAFETY INSTRUCTION	1.0		
This course follows the standards and procedures for certification by the American Red Cross.			
<i>Prerequisite: A current A.R.C. senior lifesaving card.</i>			
8 0835 113			
MEN'S GYMNASTICS AND TUMBLING	2.0		
This course is designed to introduce methods and materials in gymnastics and tumbling for the major students. Emphasis will be placed on the organization of gymnastic movements for learning according to their similarities in difficulty and execution. The role of the teacher in facilitating skill development in gymnastics and tumbling also will be emphasized.			
8 0835 114			
WOMEN'S GYMNASTICS AND TUMBLING I	2.0		
Developing skills on the apparatus; demonstrating an understanding of skills for elementary through high school. Safety measures related to equipment and spotting. Students perform progression for basic skills on all equipment.			
8 0835 115			
LACROSSE	1.0		
The history, development, and present status of the sport will be studied. The student will develop basic skills and learn game strategy, rules and specific techniques concerning class organization, safety and evaluation.			
8 0835 116			
VOLLEYBALL	1.0		
The student is provided with the history, development, and present status of the sport; analysis of basic skills, game strategy, rules, terminology, plus specifics concerning class organization, safety and evaluation.			
8 0835 120			
BOWLING	1.0		
The history, rules, techniques, strategies, terminology and rules are discussed; and students attend classes at bowling alleys for practical experience.			
8 0835 122			
GOLF	1.0		
To permit students to attain the minimum skill necessary for understanding the fundamentals of this sport.			
8 0835 124			
BADMINTON	1.0		
A comprehensive analysis of the techniques and skills of the sport; current trends, rules, terminology, equipment and game strategy			
8 0835 126			
ARCHERY	1.0		
The development and present status of archery; basic skills, tournament strategy and rules.			
8 0835 128			
FENCING	1.0		
This course will introduce the physical education major to the fundamental skills, techniques, strategies, and rules of foil fencing. Included are methods for implementing a fencing program in physical education classes.			
8 0835 130			
TENNIS	1.0		
This course will introduce the physical education major to the fundamental skills, techniques, strategy, and rules of tennis and explore ways to implement tennis instruction in group situations.			
8 0835 131			
FITNESS ACTIVITIES	2.0		
A comprehensive course provided for knowledge needed for developmental programming of personalized fitness activities utilizing all modes of fitness training.			
8 0835 132			
WRESTLING	1.0		
The history, development and present status of wrestling; basic skills, strategy, rules and specific techniques concerning class organization safety and evaluation.			
8 0835 134			
TRACK AND FIELD	1.0		
Techniques for performance and analysis of all track and field activity, including cross-country.			
8 0835 140			
MOVEMENT EDUCATION AND RHYTHM	1.0		
This course presents theory, materials, and methods for the teaching of correct movement and rhythm in the elementary schools. Creativity will be encouraged, and the use of percussion instruments and other media for accompanying movement will be taught.			
8 0835 141			
AMERICAN FOLK AND SQUARE DANCE	1.0		
Skills and teaching methods in folk and square dance. The student will also experience calling a square dance.			
8 0835 142			
EUROPEAN FOLK DANCE	1.0		
This course will acquaint the student with a variety of European folk dances.			

- 8 0835 143
SOCIAL DANCE 1.0
The fundamentals of social dance are presented to the student.
- 8 0835 150
PRINCIPLES AND PRACTICES OF EMERGENCY CARE 2.0
This is a combined lecture and practical course designed to acquaint the students with the need for proper emergency care (practical and theory). Modern day principles of safety and emergency care will be emphasized.
- 8 0835 220
PHYSIOLOGY OF EXERCISE 2.0
The physiological effects of activity upon the human organism. The reaction of exercises of speed, strength and endurance upon the circulatory, respiratory and muscular systems. The causes of fatigue, staleness and exhaustion.
Prerequisites: W 0401 240, 241.
- 8 0835 221
KINESIOLOGY 2.0
The role of the skeletal, muscular, and nervous systems in producing purposeful human movement, the physical principles governing efficient movement, and the analysis of the performance of motor skills.
Prerequisites: W 0401 240, 241.
- 8 0835 222
BASIC MOTOR LEARNING 2.0
The investigation of the physical and psychological factors related to motor learning in physical education activities. Emphasis will be placed on the role of the teacher in facilitating motor skill development.
Prerequisites: W 0401 240, 241.
- 8 0835 223
BASIC PREVENTION AND CARE OF ATHLETIC INJURIES 3.0
An introductory course designed to provide the student with information about those aspects of sports medicine which are necessary to the safe conduct of sports.
- 8 0835 224
CAMPING AND OUTDOOR EDUCATION 2.0
This dual course introduces the student to outdoor education and camping. A basic view of the outdoor education field, especially as it relates to elementary and secondary education. Introduction to recreational (individual and small group), and organized camp.
- 8 0835 226
COACHING PRINCIPLES AND PROBLEMS 3.0
This course is designed to present an overview of the principles and problems pertaining to coaching on the high school and college levels.
- 8 0835 227
SOCIAL PROBLEMS IN SPORT 3.0
Designed to analyze a number of important and controversial issues of sports in American society.
- 8 0835 230
MODERN DANCE IN PHYSICAL EDUCATION 1.0
This course is designed to provide the physical education student with the skills and knowledge to teach a basic unit in modern dance in the schools.
- 8 0835 235
PHYSICAL EDUCATION ACTIVITIES IN THE ELEMENTARY SCHOOL 2.0
To provide the student with information concerning the physical, social, intellectual and emotional characteristics of the elementary school child, and the selection and teaching of appropriate non-sport activities in physical education.
- 8 0835 240
GYMNASTICS FOR ELEMENTARY SCHOOL 2.0
The methods and materials in gymnastics for elementary schools through a sensorimotor approach to learning and performance.
Prerequisite: 8 0835 113 or 114.
- 8 0835 241
MEN'S GYMNASTICS FOR SECONDARY SCHOOL 2.0
Methods and materials in gymnastics for secondary school physical education. The organization of gymnastic movements for learning according to their similarities in difficulty and execution. The role of the teacher in facilitating skill development in gymnastics.
Prerequisite: 8 0835 113 or 114.
- 8 0835 242
WOMEN'S GYMNASTICS FOR SECONDARY SCHOOL 2.0
Methods and materials in gymnastics which are applicable for teaching in the secondary schools. Methods of teaching tumbling and apparatus work.
Prerequisite: 8 0835 113 or 114.
- 8 0835 243
ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION 2.0
This course will deal with the administrative theory and management process for physical education programs. The function of administration in all supportive operations and specialized programs essential to physical education will be conducted.
- 8 0835 244
PHYSICAL EDUCATION FIELD EXPERIENCE 1.0
This course will provide an opportunity for physical education majors interested in teacher education to examine the nature and function of physical education programs in a public school setting.
- 8 0835 246
FIELD EXPERIENCE IN ADULT FITNESS 1.0
This course permits physical education majors interested in adult fitness an opportunity to observe and evaluate a variety of adult fitness programs.
- 8 0835 303
COACHING BASKETBALL 2.0
The course is designed to provide students with an introduction to the art of coaching the game of basketball. Students have an opportunity to explore various contemporary styles and aspects of team play. Teaching, beginning with individual player development and progressing to team development, will be covered.
- 8 0835 304
COACHING SOFTBALL 2.0
Concepts and organizational procedures for coaching softball. Skills, offensive and defensive strategies and rules.
- 8 0835 306
COACHING BASEBALL 2.0
Individual skills and team techniques of coaching baseball administration and organization of practice sessions for effective learning.
- 8 0835 308
COACHING FOOTBALL 2.0
Techniques and methods of coaching football with emphasis on team play. Offensive and defensive methods for running, passing and kicking game. Complete organization of a football program is presented.
- 8 0835 309
COACHING SOCCER 2.0
The course is designed to provide students with an understanding of the theory and techniques of coaching soccer.

- 80835 310
COACHING SWIMMING AND DIVING 2.0
Practical knowledge of coaching swimming and diving. Coaching theory, the perfecting of skills and conditioning procedures
- 80835 317
COACHING VOLLEYBALL 2.0
Advanced playing strategies and information for coaching the advanced student at high levels of competition. Philosophy of coaching, characteristics and responsibilities of a coach.
- 80835 323
ADVANCED PREVENTION AND CARE OF ATHLETIC INJURIES 3.0
This advanced level course integrates the knowledge of anatomy, physiology, biomechanics, nutrition, conditioning, and first aid. This course provides an understanding of the prevention, care, and rehabilitation of athletic injuries. Theoretical and practical aspects of the field will be presented through lecture and laboratory sessions in order to develop a broad background concerning the health care and medical management of athletic injuries. Athletic training is presented as a professional opportunity as well as an essential aspect in the education of physical educators and coaches.
Prerequisite: 80835 223.
- 80835 340
FITNESS AND THE AGING PROCESS 4.0
The course will deal with the physiological, emotional and social changes experienced by the older adult as he/she moves through the aging process. The student will be helped to assess fitness needs based on these findings and to select appropriate activities. Methods and techniques for communicating with and teaching the older adult will be an important part of the course content. Field trips and observations of older adult activities will also be included.
Prerequisites: 80835 220, W0401 240, 241.
- 80835 345
AQUATIC MANAGEMENT 3.0
Designed to provide skills and knowledge in the area of aquatic management which will enable the student to develop appropriate programs at swim clubs, community pools, camps and health clubs.
- 80835 351
ADAPTED PHYSICAL EDUCATION 3.0
This is a lecture and practicum course covering the introductory techniques for conducting a physical education program to meet the needs of the developmentally disabled. Each student is required to spend a minimum of 15 hours of laboratory experience in schools, agencies, and/or institutions.
Prerequisites: W0401 240, 241.
- 80835 352
DEVELOPMENT AND PHILOSOPHY OF PHYSICAL EDUCATION 3.0
The history and development of physical education are traced from primitive to modern times. Influences which contributed to the modern philosophy of physical education are identified. May not be taken until junior year.
- 80835 353
PSYCHOLOGY OF SPORT 3.0
Psychology related to physical activity on emotional, attitudinal and personality aspects; motivation, cultural and sociological problems of athletes spectator response and deportment.
- 80835 355
MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION 3.0
Tests and measurements specifically concerned with the area of physical education. Tests and measurements as tools for better teaching as well as for research. Open to juniors and seniors only.
- 80835 357
TEACHING OF PHYSICAL EDUCATION 4.0
Methods of teaching and principles of learning as they apply to growth, development and movement. Urban, inner city, suburban and rural situations and conditions related to learning facilities and equipment
Prerequisite: Acceptance into Teacher Education program.
- 80835 359
ORGANIZATION AND ADMINISTRATION OF ATHLETICS 2.0
For those who expect to become teachers, supervisors and athletic directors. Athletics eligibility, management, equipment, records, intramural programming and tournaments, awards, finances, budgets, safety, maintenance, planning of facilities, junior and senior high school athletic trends.
- 80835 361
PHYSICAL ACTIVITY FOR THE EMOTIONALLY HANDICAPPED 2.0
Identifying the levels of emotional handicaps experienced by children. Understanding psychological and social needs. Activities suitable for meeting the needs of these children.
- 80835 362
PHYSICAL ACTIVITY FOR THE MENTALLY HANDICAPPED 2.0
Current practices, problems, legislation and financing of programs for the mentally retarded. Developing a physical activity program to meet the needs of the educable and trainable mentally retarded.
- 80835 363
PHYSICAL ACTIVITY FOR THE SENSORY HANDICAPPED 2.0
Provides information concerning the needs of those with sensory handicaps and some understanding concerning their social and psychological needs and present materials in physical education activities suitable for each handicap.
- 80835 375
FOUNDATIONS AND PRACTICES IN CARDIAC REHABILITATION 3.0
Knowledge and skills related to cardiac rehabilitation which are necessary for working with post-cardiac individuals in the post-hospital continuing exercise program. Students will be expected to demonstrate a high level of competence in all aspects of the course.
Prerequisites: 80835 220, W0401 240, 241, instructor's permission.
- 80835 379
INTERNSHIP IN ATHLETIC TRAINING 4.0
Designed for the student interested in becoming certified as a trainee (NATA). Through an internship program the student will be provided the opportunity to apply the background information obtained in both basic and advanced prevention and care of athletic injuries course. The proposed course will also meet the NATA requirement for field experience. This course available to students not completing the student teacher experience only.
Prerequisites: 80835 150, 223, 323.
- 80835 380
INTERNSHIP IN PHYSICAL EDUCATION 4.0-8.0
Intended only for those students who have tentatively identified a career goal. Experience selected will be closely related to the career aspiration of the student. On-the-job experiences in the areas of organizations and agencies where professional competency will be utilized as related to the career goals of the student. Available to students not completing the student teacher sequence only
Prerequisites: Minimum of 105 semester hours completed. 2.25 grade point average.

80835 381
COOPERATIVE EDUCATION IN PHYSICAL
EDUCATION 4.0-8.0
Integrates academic study with supervised employment outside the formal classroom environment. The co-op term is a semester off campus during which a student, while supervised by a department faculty coordinator, is responsible for completing the terms of a predetermined learning contract. Available to students not completing the student teacher sequence only.
Prerequisites: 60 semester hours completed, 2.45 grade point average, 2.67 major grade point average, or instructor's permission.

80835 399
INDEPENDENT STUDY IN PHYSICAL
EDUCATION 1.0-6.0
Provides an opportunity to pursue independent study in one of the specialized areas of physical education.

80835 444
SEMINAR IN PHYSICAL EDUCATION 1.0
This course permits physical education student teachers an opportunity to discuss and evaluate the experiences they have in a physical education setting while student teaching.
Prerequisites: Accepted into teacher education program, and enrolled concurrently in 10829 411, Supervised Student Teaching.

80835 492
SELECTED TOPICS IN PHYSICAL
EDUCATION 1.0-3.0
A theoretical and practical in-depth study in a current aspect of physical education. Topics will be determined prior to course offering and publicized.

Non-Major Courses

80879 200
BEGINNING SWIMMING 1.0
This course is designed for beginning swimmers and those who are not comfortable in the water. The scope of the course will cover a wide variety of swimming strokes and survival techniques.

80879 201
SPRINGBOARD DIVING 1.0
Techniques of springboard diving. Progression of skills and safety measures will be emphasized.
Prerequisites: Completion of a swimming course at MSC with minimum B grade or instructor's permission.

80879 202
BADMINTON 1.0
The history, techniques, strategies, terminology and rules of badminton are discussed.

80879 203
GOLF 1.0
This course will deal with the essential information about the selection of equipment and the characteristics of the game of golf including the skills and components of the use of various clubs, rules and courtesies.

80879 242
RACQUETBALL 1.0
The origin, development, and present status in the sport of racquetball will be studied. Basic skills, game strategy, and rules will be taught and applied.

80879 250
INTERMEDIATE SWIMMING 1.0
This course is designed for men and women who have at least a minimum amount of aquatic knowledge and skill. The scope of the course will cover a wide area of swimming strokes, water stunts, and springboard diving. Organization for teaching groups and safety procedures will also receive emphasis.

80879 251
AEROBIC ACTIVITIES 1.0
This course will provide the student with an opportunity to recognize and develop cardiovascular conditioning, endurance and lifetime fitness skills.

80879 252
ARCHERY 1.0
Fundamentals and use of archery as a leisure pursuit.

80879 253
GYMNASTICS 1.0
Gymnastics and conditioning and development of skills in gymnastic movements.

80879 257
WEIGHT TRAINING AND CONDITIONING 1.0
A regimen of physical fitness (conditioning) exercises will be established for the individual student, and assistance will be rendered to help him or her in following this regimen in order to reach his or her maximum physical potential (muscle tone and endurance).

80879 258
BEGINNING TENNIS 1.0
Fundamental skills of tennis, singles and doubles play. Appreciation of tennis as a leisure pursuit.

80879 260
BEGINNING RIDING 1.0
Techniques for the beginner. Taught at a riding academy.

80879 261
FENCING 1.0
Fundamentals of fencing. Understanding of fencing as a sport.

80879 262
VOLLEYBALL 1.0
Basic skills, game strategy and rules taught. Power volleyball for more advanced players.

80879 263
JOGGING 1.0
Proper techniques for jogging stressed, development of cardiovascular fitness through progressive running.

80879 264
SOCCER 1.0
The origin, development, and present status of soccer will be studied. Basic skills, game strategy, and rules will be taught and applied. As a service course to non-physical education majors, the principal aim is to introduce the student to the fundamentals of soccer.

80879 265
FIGURE SKATING 1.0
Figure skating for the novice taught at an off-campus skating rink.

80879 266
SKIING 1.0
The student is provided with information pertaining to basic techniques, safety, etiquette, and equipment relevant to his level of skiing. Instruction will be given on the slope for five weeks along with additional information to be given on campus. An additional fee is required for lift tickets and rental equipment.

80879 270
FOLK AND SQUARE DANCE 1.0
This course covers the history, techniques and styles of a wide variety of folk and square dances.

8 0879 271
SOCIAL DANCE 1.0
The course covers the traditional ballroom dances as well as current popular styles and routines.

8 0879 272
BOWLING 1.0
Adequately prepare and develop the student with a background of the necessary skills essential to performing and under the art of bowling

8 0879 274
SCUBA DIVING 1.0
Scuba diving techniques and safety.

8 0879 275
BEGINNING KARATE 1.0
Beginning karate. Skills and development of personal ability in performance of the activity

8 0879 278
YOGA 1.0
Instruction will be given in how to perform yoga postures, plus the techniques of breathing, relaxation, awareness, and concentration, with their proper progression. The historical and psychological factors involved in the development of yoga, and its increasingly widespread appeal physically and philosophically will be dealt with.

Recreation and Leisure Studies

8 2103 105
OUTDOOR RECREATION SKILLS 2.0
Introduction to a wide variety of outdoor recreation and leisure pursuits with emphasis upon skill acquisition. Field visits required.

8 2103 123
LEADERSHIP TECHNIQUES IN SOCIAL RECREATION 2.0
Activity level leadership needed for organizing individual and group participation in social recreation settings. Application of acquired techniques in the planning, execution and evaluation of a variety of recreation games and activities. Fieldwork required.

8 2103 124
INTRODUCTION TO AND HISTORY OF RECREATION AND LEISURE SERVICES 4.0
History, theory, philosophy and introduction to the professional areas of recreation and leisure services. Significance of recreation and leisure in contemporary living.

8 2103 208
LEISURE AND RECREATION IN SOCIETY 3.0
Analysis and interpretation of the concepts of leisure. Its role in individual, community and national lifestyles, its social and economic significance. The role of recreation programs and services in meeting current and future needs of society. Non-majors only.

8 2103 225
PROGRAM PLANNING IN RECREATION AND LEISURE 3.0
Theory, principles, and practices of systematic program planning. Field observation and participation is required
Prerequisites: 8 2103 123, 124

8 2103 228
RECREATION FOR SPECIAL POPULATIONS 3.0
Adaptation of recreation and leisure services for persons with special needs and limitations. Role of institutions and community agencies. Specialized leadership techniques. Modification requirements for areas, facilities equipment, and supplies.
Prerequisite: 8 2103 225.

8 2103 231
PARK PLANNING AND DESIGN 2.0
An introduction into the basic planning and design aspects of park operations. Emphasis on the managerial responsibilities in the construction and operation of recreation and park areas and facilities. Includes inquiry into professional ethics and professional standards in park administration. Field visits required.
Prerequisite: 8 2103 124

8 2103 250
SCHOOL-COMMUNITY RECREATION 3.0
Inquiry into the historical and contemporary processes and practices utilized in the planning and development of school and community resources for recreation and leisure.

8 2103 252
RECREATION NEEDS OF URBAN SOCIETY 3.0
Survey and evaluation of leisure and recreation as a social force. Recreation history and philosophy in light of changing times. Present and future recreational needs and problems of urban society.

8 2103 271
CLINICAL EXPERIENCES IN THERAPEUTIC RECREATION 1.0-3.0
Individualized student placements in clinical settings provide opportunity to gain firsthand knowledge of therapeutic recreation and prescriptive programming services.
Prerequisites: W 0401 240, 241.

8 2103 285
FIELD EXPERIENCE IN RECREATION AND PARKS 2.0-4.0
Supervised on-site laboratory experience in an approved recreation or leisure service area. Seminar meetings and individual conferences required.
Prerequisite: Department chairperson's approval.

8 2103 299
SELECTED TOPICS RECREATION AND PARK ADMINISTRATION 1.0-3.0
Professional inquiry into the study of a selected issue, problem or trend in recreation and park administration.
Prerequisite: Department chairperson's approval.

8 2103 311
SPECIAL EVENTS PLANNING AND PROMOTION 2.0
Considerations involved in production and promotion of special events that involve large and diverse publics, budgeting, special facilities and equipment, legal considerations, transportation and crowd management. Field visits required.
Prerequisite: 8 2103 225.

8 2103 312
BUDGET AND FINANCE IN RECREATION AND PARKS 3.0
Study of the various sources and methods of financing, including exploration of the philosophy and mechanics of the budgetary process in recreation and park systems.
Prerequisites: 8 2103 225.

8 2103 322
PHILOSOPHY OF RECREATION AND LEISURE 2.0
A study and analysis of the philosophical concepts concerning recreation and leisure, including past theories, current thoughts and practices, and philosophical directions for the future of recreation and leisure services in the United States.

- 8 2103 334
RESEARCH METHODS IN RECREATION AND LEISURE SERVICES 3.0
An introduction to the various techniques and methods used in research, the appropriate application of research methods, statistical methodology and other analytical tools for investigating problems in recreation and park professions.
Prerequisites: 8 2103 124, 225.
- 8 2103 340
INTRODUCTION TO COMMERCIAL RECREATION AND TOURISM 3.0
Analysis of the commercial recreation and tourism industries. Includes a study of participant profiles, types of commercial and resort enterprises, national tourism studies. Employment opportunities, trends and issues. Field visits required.
Prerequisite: 8 2103 124.
- 8 2103 342
DELIVERY OF COMMERCIAL RECREATION AND TOURISM SERVICES 3.0
Methods and procedures for organizing and implementing commercial recreation and tourism enterprises. Includes an in-depth analysis of delivery systems, economic and marketing trends and promotion. A class research project is part of the course requirements. Field visits required.
Prerequisite: 8 2103 340.
- 8 2103 346
TOURISM AND COMMERCIAL RECREATION, PLANNING DEVELOPMENT, AND ANALYSIS 3.0
Skills and techniques used in the planning, development, and analysis of tourism and commercial recreation facilities. Students will be required to complete a major research project.
Prerequisites: 8 2103 340, or 360 and 334.
- 8 2103 352
MARKETING TECHNIQUES IN RECREATION AND LEISURE SERVICES 3.0
Methods and techniques of communications to interpret, motivate, promote and publicize recreation and leisure services. Human and technical procedures utilized in recreation and leisure delivery systems.
Prerequisites: 8 2103 225, 322.
- 8 2103 360
OUTDOOR RECREATION PLANNING 3.0
Survey of the planning methods and techniques utilized in outdoor recreation resource management, basic planning models, land use, legal foundations and visitor management. A class planning project is a part of the course requirements.
Prerequisite: 8 2103 124.
- 8 2103 365
TECHNICAL DESIGN OF RECREATION AND PARK AREAS AND FACILITIES 3.0
The basic considerations in the functional and aesthetic components in recreation and park design. Includes the pre-design and development phases of recreation and park areas and facilities. Circulation, lighting, water systems, health and safety, and performance controls on sensitive lands analyzed. Field visits required.
Prerequisite: 8 2103 360.
- 8 2103 367
MANAGEMENT AND MAINTENANCE OF RECREATION AND PARK AREAS AND FACILITIES 3.0
An investigation of the methods associated with the proper management and maintenance techniques of a variety of recreation and park areas and facilities. Includes park protection, vandalism, personnel training, maintenance operations, and specialized areas. Field visits required.
Prerequisite: 8 2103 360.
- 8 2103 370
INTRODUCTION TO THERAPEUTIC RECREATION 3.0
An introduction to therapeutic recreation as a profession and service in clinical and community settings. The course includes an analysis of current issues and trends in the field, employment opportunities, and the concept of professionalism.
- 8 2103 372
RECREATION AND REHABILITATION SERVICES 3.0
Study of roles and interrelationships of professional personnel in the rehabilitation services in medical, correctional, and community settings. The team approach to rehabilitation services will be emphasized. Field visits required.
Prerequisite: 8 2103 228.
- 8 2103 377
PROGRAMMING AND SUPERVISION IN THERAPEUTIC RECREATION 3.0
Includes design, construction, and implementation of programs in therapeutic recreation. Includes supervision and objective evaluative procedures for programs and personnel.
Prerequisites: W0461 241, 8 2103 228.
- 8 2103 381
COOPERATIVE EDUCATION IN RECREATION AND PARKS 4.0-8.0
Integration of academic study with supervised employment outside the formal classroom environment. The cooperative education experience is supervised by a faculty member and an agency/organization supervisor.
Prerequisites: 8 2103 225, department chairperson's approval.
- 8 2103 390
INDEPENDENT STUDY IN RECREATION, PARKS AND LEISURE 1.0-3.0
Independent study in area of student need and/or interest pertinent to recreation, parks and leisure. Interested students must present detailed written proposal to the department chairperson for approval and determination of credit allocation. Sophomore, junior or senior standing.
- 8 2103 430
MANAGEMENT OF RECREATION AND LEISURE SERVICES 4.0
Managerial techniques and methods pertaining to the delivery of recreation and leisure services. Topics include leadership and problem solving skills, organizational structure, personnel management and legal issues.
Prerequisites: 8 2103 225, majors only.
- 8 2103 437
SENIOR SEMINAR 2.0
Examination and analysis of student preparation for field work and entry into the recreation and park profession. Formal application and placement of field work students.
Prerequisites: Majors only, minimum 2.45 cumulative grade point average at MSC.
- 8 2103 472
RECREATION THERAPY 3.0
Philosophy, principles, and techniques in the use of recreation as a treatment modality in rehabilitating people with illness or disabling limitations. Role of recreation in total rehabilitation process of various agencies. Field visits required.
- 8 2103 489
FIELDWORK IN RECREATION AND PARKS 14.0
Directed full-time professional supervisory experiences in an approved recreation, parks or leisure delivery system. Emphasis on individual development in program planning, conduct and evaluation, budget and finance, legal aspects, community and public relations.
Prerequisites: Majors only, 2.45 grade point average at MSC, 8 2103 437, and department chairperson's approval.

Physics and Geoscience

SCHOOL OF MATHEMATICAL
AND NATURAL SCIENCES

Chairperson: Richard Hodson

The Physics-Geoscience department consists of two departments, each having its own expertise, majors, and programs within one administrative structure. The department offers separate major programs in geoscience and physics, plus teacher certification. Minors offered in either physics or geoscience are especially useful to computer science or applied mathematics majors.

Part of the Physics-Geoscience department tradition is that a professor works with classes in the laboratory. This, plus a favorable student-faculty ratio, allows personal contact between student and professor. One is free to consult professors about course material for guidance or just to exchange ideas.

All programs are designed to provide substantial well-rounded preparation for students planning to enter graduate school, research, industry, or teaching.

Students entering this department should have an exposure to biology, chemistry and physics, plus three years of college preparatory mathematics. The physics major should have four years of college preparatory mathematics.

Geoscience Major

Required Courses

	Semester Hours
1914 112 Physical Geology	4
1914 114 Historical Geology	4
1914 431 Invertebrate Paleobiology	4
1914 434 Stratigraphy	4
1914 443 Mineralogy	4
1914 444 Petrology	4

Collateral Courses

1905 120, 121 General Chemistry I, II 4 ea.

Select one of the following sequences in mathematics:

1701 115 Precalculus Math	3
1701 116 Calculus A	4
1701 122 Calculus I	4
1701 221 Calculus II	4

Select one of the following sequences in physics:

1902 191, 192 General Physics I, II	4 ea.
1902 193, 194 College Physics I, II	4 ea.

Recommended in addition to the above:

0701 183 Foundations of Computer Science I	3
1701 109 Statistics	3

Electives (Departmental)

Select 14 semester hours from the appropriate list to be obtained from the department 14

Geoscience Minor

Required Courses

	Semester Hours
1914 112 Physical Geology	4
1914 114 Historical Geology	4
Select one sequence	
1914 431 Invertebrate Paleobiology	4
1914 434 Stratigraphy	4
or	
1914 443 Mineralogy	4
1914 444 Petrology	4

Electives (Departmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Physics Major

Required Courses

	Semester Hours
1902 191, 192 General Physics I, II	4 each
1902 210 Mechanics	4
1902 240 Electricity and Magnetism	4
1902 350 Optics	4
1902 460 Modern Physics	4

Collateral Courses

1905 120, 121 General Chemistry I, II	4 ea.
0701 183 Foundations of Computer Science I	3
1701 122 Calculus I	4
1701 221 Calculus II	4
1701 222 Calculus III	4
1701 420 Differential Equations	3

Electives (Departmental)

Select 14 semester hours from the appropriate list to be obtained from the department 14

Physics Minor

Required Courses

1902 191, 192 General Physics I, II	4 ea.
1902 240 Electricity and Magnetism	4

Plus either Option A or Option B:

Option A

1902 210 Mechanics	4
1902 Physics elective	3

Option B

Select two

1902 242 Circuit Theory	3
1902 245 Electronics and Digital Techniques	4
1902 247 Microprocessors and Their Applications	4
	19

Teacher Certification

Students who successfully complete a departmental major program, the teacher certification professional sequence, one biology course (from W 0401 105, 120, 130, or 140) and Z 0834 401 (The Teaching of Science in Secondary Schools) will qualify for the Comprehensive Science Teaching Certificate. In addition, geoscience majors will qualify for the Earth Science Teaching Certificate, while physics majors will qualify for the Physical Science Teaching Certificate. Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Second Teaching Field in Geoscience

Required Courses

	Semester Hours
1914 112 Physical Geology	4
1914 114 Historical Geology	4
1914 457 Meteorology	4
1902 280 Astronomy	4
1914 360 Oceanography	3

Electives (Departmental)

Select 5 semester hours from the appropriate list to be obtained from the department 5

Second Teaching Field in Physical Science

Students majoring in a field other than physics and who wish certification in physics may take a physical science program. In addition to the certification program in their major, they must take the following:

1902 191, 192 General Physics I, II	4 ea.
Physics Elective	4
1905 120, 121 General Chemistry I, II	4 ea.
1905 230 Organic Chemistry I	3
1905 232 Experimental Organic Chemistry I	2

Courses of Instruction

Z.0834 401
THE TEACHING OF SCIENCE IN
SECONDARY SCHOOLS 3.0
The purposes are to review the educational objectives of science in the public schools; to consider a program of science instruction for secondary schools, including the new programs; to study aids to instruction such as texts, manuals, workbooks, tests and enrichment materials; to make a critical review of evaluation in science classes; and to investigate the various special methods of teaching applicable to science instruction.

Z.0834 460
MARINE SCIENCE EDUCATION 2.0
Selected field experiences and laboratory methods utilized to develop resources from the marine environment to be used in teaching the various disciplines. Offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisite: Undergraduate science major sequence, including a 400 level oceanography course and a science methods course, or permission of instructor.

Z.1902 100
CONCEPTS IN SCIENCE 4.0
This is a one-semester course with laboratory designed for those students not majoring in science areas. This course will introduce the student to methods of science while teaching some principles of physical science and some applications of these principles. Topics discussed include, among others: energy and motion, heat energy and solar heating, sound and noise, light, lenses and fiber optics. (3 hrs. lecture, 2 hrs. laboratory)

Z.1902 105
ACOUSTICS 4.0
The physical principles of acoustics, applied to the production of music and speech, architectural acoustics, and electronic sound reproduction, at a level suitable for non-science majors. (3 hrs. lecture, 2 hrs. laboratory)

Z.1902 191
GENERAL PHYSICS I 4.0
This one-semester calculus-based course, including laboratory, is a study of the principles of physics and some applications to society's problems. Topics covered include: mechanics, thermodynamics, fluids and harmonic motion. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: Y 1701 122 or concurrent.

Z.1902 192
GENERAL PHYSICS II 4.0
Calculus-based course. Study of some principles of physics and some applications to society's problems. Topics include: wave motion, sound and noise pollution, optics, electricity, lasers, nuclear theory, radiation, nuclear reactors, waste disposal. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: Y 1701 221 or concurrent.

Z.1902 193
COLLEGE PHYSICS I 4.0
This one-semester course, including laboratory, is a study of the principles and applications of classical physics. Topics covered include: mechanics, heat and thermodynamics, wave motion and sound, as well as societal applications of physical principles. Calculus is not used, but familiarity with some algebra and trigonometry is required. (3 hrs. lecture, 2 hours laboratory)

Z.1902 194
COLLEGE PHYSICS II 4.0
This one-semester course, including laboratory, is a study of the principles and applications of classical physics. Topics covered include: optics, electricity and magnetism, and an introduction to modern and nuclear physics as well as societal applications of physical principles. Calculus is not used, but familiarity with some algebra and trigonometry is required. (3 hrs. lecture, 2 hrs. laboratory)

Z.1902 210
MECHANICS 4.0
Classical mechanics: kinematics, Newton's laws, impulse and momentum, statics, work and energy, oscillations, general motion, central force motion, non-inertial frames, system of particles, methods of handling data. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisites: Z 1902 191, 192, Y 1701 221 or concurrent.

Z.1902 240
ELECTRICITY AND MAGNETISM 4.0
Basic principles of electromagnetism: Coulomb's law and general techniques in electrostatics, currents and their associated magnetic field, electromagnetic induction and magnetic properties of materials. Foundations of Maxwell's equations (without detailed solutions). Laboratory experiments. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisites: Z 1902 192, Y 1701 222, or concurrent.

Z.1902 242
CIRCUIT THEORY 3.0
Introduces basic methods in circuit analysis and design. Topics include linear electric circuits and their response, circuit theorems, filters, fourier analysis of different inputs and outputs, and transmission lines. (2 hrs. lecture, 2 hrs. laboratory)
Prerequisites: Y 1701 221, Z 1902 192, 210 or Y 1701 420.

Z.1902 245
ELECTRONICS AND DIGITAL CIRCUITS 4.0
An introduction to the principles of amplifiers, waveform generators, and digital circuits, with emphasis on the use of commonly available integrated circuit packages. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: Z 1902 240.

Z.1902 247
MICROPROCESSORS AND THEIR APPLICATIONS 4.0
One semester course providing an introduction to the principles, operations and applications of microprocessors including experiment control and data manipulation. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: Z 1902 192 or 194.

- Z 1902 280
ASTRONOMY 4 0
Application of physical laws to the earth as a planet, nature of the other planets; orbital motion and space flight, origin of the solar system, the birth, life, and death of a star galactic structure; and cosmology. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisites: Z 1902 191, 192 or 193, 194, Y 1701 115.
- Z 1902 310
ADVANCED MECHANICS 3 0
Classical mechanics: transformations; oscillators, generalized motion; Lagrange's equations; Hamilton's equation, small oscillations; wave propagation. (Offered alternate years.)
Prerequisites: Y 1701 222, 420, Z 1902 210.
- Z 1902 320
THERMODYNAMICS 3.0
Thermodynamic systems; laws of thermodynamics; entropy; kinetic theory; transport processes; statistical thermodynamics. (Offered alternate years.)
Prerequisites: Y 1701 222, Z 1902 210 or instructor's permission
- Z 1902 340
ADVANCED ELECTRICITY AND MAGNETISM 3.0
Dielectric materials, image calculations; Laplace's equation, magnetic materials and flux; A.C. networks; non-sinusoidal AC; transients and pulses; electromagnetic radiation. (Offered alternate years.)
Prerequisite: Y 1701 420 or instructor's permission.
- Z 1902 350
OPTICS 4.0
Propagation of light, optical components, instruments and photometry. Interference, diffraction and polarization with elements of spectroscopy. (Offered alternate years.)
Prerequisites: Y 1701 222, Z 1902 240.
- Z 1902 460
MODERN PHYSICS 4 0
Special relativity, Kinetic theory of matter; quantization of electricity, light and energy; nuclear atom; elementary quantum mechanics and topics on solid state. (Offered alternate years.)
Prerequisites: Z 1902, 210, 240, Y 1701 222.
- Z 1902 462
NUCLEAR PHYSICS 4.0
Nuclear radiation; radioactive decay; detectors; nuclear spectroscopy and reactions; theories and models; fission, fusion, reactors; and application of radio-isotopes. (Offered alternate years.)
Prerequisites: Z 1902 210, 240, Y 1701 222.
- Z 1902 470
SOLID STATE PHYSICS 3.0
Properties of solid state matter are developed from the quantum mechanics of atoms and molecules. (Not offered every year.)
Prerequisites: Y 1701 222, Z 1902 460.
- Z 1914 107
FUNDAMENTALS OF GEOSCIENCE 4.0
An introduction to the physical characteristics of planet earth. Utilizing satellite information, aerial photographs and various types of maps and charts. This course provides background for an understanding of the basic interrelationships of the earth's atmosphere, lithosphere and hydrosphere. The human impact on earth systems is also developed and maintained in perspective.
- Z 1914 108
PRINCIPLES OF GEOLOGY 3.0
Geologic materials and processes. Origin and development of the earth throughout geologic time. Evolution of life as interpreted through the study of fossils. Not open to geoscience majors or to those who have taken physical geology.
- Z 1914 112
PHYSICAL GEOLOGY 4 0
Materials of the earth. Land forms and structure. The processes and agents responsible for their formation and modification. Modern tectonic concepts. Topographic and geologic maps. Required field trips. Not open to students who have had principles of geology. (3 hrs. lecture, 2 hrs. laboratory)
- Z 1914 114
HISTORICAL GEOLOGY 4 0
Geological history of the earth; the evolution of North America in terms of the changing geography, climate and plant and animal life as interpreted from the rock and fossil record. Required field trips. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: Z 1914 112.
- Z 1914 157
UNDERSTANDING THE WEATHER 3 0
This course is designed to examine the earth's weather through lectures, demonstrations, observations and recording of meteorological phenomena. Major emphasis is placed on thermodynamic processes within the atmosphere as they affect primary pressure/wind patterns, synoptic meteorology, and local weather characteristics. Attention is directed toward the physical processes affecting temperature, pressure, wind, humidity, cloudiness and visibility in order to understand the main characteristics of weather. Non-majors only.
- Z 1914 221
CONSERVATION OF NATURAL RESOURCES 3 0
The emphasis of this course is on the imbalance of world population growth and distribution in comparison with the availability of natural resources.
- Z 1914 225
FUNDAMENTALS OF ENVIRONMENTAL GEOSCIENCE 3.0
The study of the relationships between man and his physical habitat. Earth resources, processes and systems and the engineering properties of natural materials insofar as they are important to or are affected by human activities. Pollution of soil, water, and air will be discussed and analyzed. Field trips will be made to appropriate areas.
Prerequisites: Z 4902 107, or 108, or Z 1914 112.
- Z 1914 250
MAP READING AND CARTOGRAPHY 3.0
Principles of photogrammetry and the use of aerial photographs as a significant research method to recognize and evaluate earth environments and resources. (2 hrs. lecture, 2 hrs. laboratory)
- Z 1914 251
AERIAL PHOTOGRAPH INTERPRETATION 3 0
Principles of photogrammetry and the use of aerial photographs as a significant research method to recognize and evaluate earth environments and resources. (2 hrs. lecture, 2 hrs. laboratory)
- Z 1914 254
GEOMORPHOLOGY AND CLIMATOLOGY OF NORTH AMERICA 3.0
Major controls of climate and the landforms of North America are analyzed in order to gain an understanding of how the continent compares and is related to the rest of the world. The basis and distinct characteristics of the subdivisions of North America are examined in order to bring out contrasts and unique features within the continent.
Prerequisites: Z 1914 107, 108, or 457 or instructor's permission.
- Z 1914 310
ECONOMIC GEOLOGY 3.0
Geology and geography of non-metallic and metallic mineral resources and fuels. Problems associated with their occurrence and exploitation. Required field trips. (Not given every year.)
Prerequisites: Z 1914 112, or Z 4902 108 and one additional 2 or 3 semester hour course in geoscience.

- Z 1914 320
CONTEMPORARY PROBLEMS IN CONSERVATION OF
NATURAL RESOURCES 3.0
Designed to focus attention on specific environmental problem areas or
utilization of resources through assigned readings which provide back-
ground for open class discussion.
Prerequisite: Z 1914 220.
- Z 1914 352
FLUVIAL GEOGRAPHY 3.0
A detailed study of streams and rivers emphasizing processes causing vari-
ations in size and shape. The course analyzes the morphology of stream
channels. The course is quantitative and stresses processes. (Also listed
as N 2206 0352 Fluvial Geography.)
Prerequisites: Z 1914 107, N 2206 100.
- Z 1914 360
OCEANOGRAPHY 3.0
Study of the physical and chemical properties of sea water, oceanic circu-
lation, waves and tides, and estuarine and shoreline processes.
Prerequisite: Course in similar field or instructor's permission.
- Z 1914 410
GEOLOGY OF NEW JERSEY 3.0
The physical features of New Jersey and their origin, geologic history,
stratigraphy, paleobiology, mineralogy, structural geology, economic
geology. Required field trips. (2 hrs. lecture, 2 hrs. laboratory)
Prerequisites: Z 1914 112, or Z 4902 108 and at least 8 semester hours
in geology.
- Z 1914 431
INVERTEBRATE PALEOBIOLOGY 4.0
Invertebrate fossils—their classification, morphology, evolution, strati-
graphic distribution and paleoecology. Required field trips.
Prerequisites: Z 1914 114, W 0401 130, or instructor's permission.
- Z 1914 434
STRATIGRAPHY 4.0
Stratigraphic principles and their application. Case studies of selected re-
gions. Local stratigraphy interpreted through field studies.
Prerequisite: Z 1914 431, or instructor's permission.
- Z 1914 435
GEOLOGY OF THE VERTEBRATES 4.0
The origin, development, biogeography, paleoecology, survival or ex-
tinction, stratigraphy and morphology of selected fossil vertebrate groups.
Bio-stratigraphic and paleogeographic significance of particular fossil
vertebrate faunules. Requires field trips.
Prerequisite: Z 1914 114; a course in vertebrate zoology or permission
of instructor.
- Z 1914 443
MINERALOGY 4.0
Crystallography, internal structure, origin, occurrence, and properties of
minerals; laboratory study of common minerals. Required field trips.
Prerequisites: Z 1914 112, X 1905 121.
- Z 1914 444
PETROLOGY 4.0
Description, identification, classification, origin and occurrence of
sedimentary, igneous and metamorphic rocks. Laboratory study of the
common rocks. Required field trips.
Prerequisite: Z 1914 443, or instructor's permission.
- Z 1914 455
FUNDAMENTALS OF REMOTE SENSING OF
ENVIRONMENT 3.0
Systematic study of multiband spectral reconnaissance of the environ-
ment; multifrequency radar systems and their uses. Also listed under En-
vironmental and Geographic studies as N 2206 455.
Prerequisite: 9 semester hours of geography or geoscience.
- Z 1914 457
METEOROLOGY 4.0
The characteristics of the earth's atmosphere. Meteorological instruments,
principles of atmospheric physics, weather patterns and measurements of
changes within the atmosphere.
Prerequisite: Introductory course in geoscience.
- Z 1914 472
STRUCTURAL GEOLOGY 3.0
Recognition and interpretation of primary and tectonic rock structures.
Laboratory work emphasizes the analysis of faults, joints, folds and folia-
tion. Required field trips.
Prerequisites: Geoscience major sequence including Z 1914 114, 434,
444, Y 1701 122.
- Z 1914 480
FIELD STUDIES IN GEOSCIENCE 4.0
Use of geologic, meteorologic and oceanographic instruments in field in-
vestigations. Interpretation of observations and writing a field report. Re-
quired field trips.
Prerequisites: Geoscience major sequence, Z 1914 472.
- Z 1914 495
INDEPENDENT STUDY IN GEOSCIENCE 1.0-4.0
An opportunity for the qualified student to do library and/or laboratory in-
vestigation in a field of science of his/her choice under the guidance of
a faculty member. The course is conducted exclusively by scheduled indi-
vidual conferences and reports. (Offered on demand.)
Prerequisite: Geoscience major sequence or permission of the instructor.
- Z 1999 210
INTRODUCTION TO MARINE SCIENCES 4.0
A field-oriented lower division undergraduate course covering the princi-
pal disciplines in the marine sciences. The course is designed for the stu-
dent to evaluate his/her interest in the marine science world. Offered at
the site of the New Jersey Marine Sciences Consortium.
- Z 1999 481
COASTAL MARINE GEOLOGY 4.0
A study of the geologic processes concerned with the supralittoral, and sub-
tidal areas of the near shore environment. Field studies will emphasize the
dynamics of erosion and deposition as well as general sedimentation as-
sociated with modification of barrier beaches and other land forms of the
New Jersey shoreline. Offered at the site of the New Jersey Marine Sci-
ences Consortium.
Prerequisite: Z 1914 437.
- Z 1999 498
INDEPENDENT STUDY IN THE MARINE
SCIENCES 1.0-4.0
Individual research projects will be selected under the guidance of a pro-
fessor associated with the consortium. Open only to those advanced un-
dergraduate students who have indicated a potential for original thinking.
Offered at the site of the New Jersey Marine Sciences Consortium.
- Z 4902 103
TECHNOLOGY FOR THE LAYMAN 3.0
Simplified description of man-made devices. Common technological
terms and physical principles behind heaters, air conditioners, airplanes,
telephone, radar, nuclear reactors, etc.
- Z 4902 104
HISTORY OF SCIENCE 3.0
The historical and philosophical development of science traced from the
ancient Egyptians to the present.

Z 4902 106
SCIENCE AND SOCIETY 3.0
This is a one semester course for non-science majors designed to provide a knowledge of some of the principles of physical science and to indicate how they are related to society. Formal laboratory is not included in the course. Topics discussed vary but may include such areas as: science, a human activity; man and energy; radiation and man; electricity and man; nuclear power and man; and others.

Z 4902 110
NATURAL DISASTERS 3.0
The study of natural disasters such as volcanic activity, earthquakes and hurricanes. The causes, effects and means of predicting, preventing and minimizing the effects of disasters will be discussed. The relationships between man and his sometimes hostile habitat will be included. Non-majors only.

Z 4902 135
DINOSAURS, THEIR LIFE AND TIMES 3.0
The origin evolution, paleocology and extinction of the dinosaurs as reflected in the history of the Mesozoic era.

Z 4902 162
GENERAL OCEANOGRAPHY 3.0
A general study of the oceans and methods of modern oceanography, including the physical, chemical, geological, and biological aspects of the oceans and their interrelationship. Non-majors only.

Z 4902 180
DESCRIPTIVE ASTRONOMY 3.0
A discussion of our place in the universe from ancient ideas to modern data on the moon, planets, comets, stars, galaxies and quasars. The formation and evolution of planets, stars, black holes and the universe as a whole reveal our place in time. Non-majors only.

Z 4902 198
ENERGY, SOCIETY AND ENERGY ALTERNATIVES
RACE 3.0
This is a non-mathematical course designed to: (1) provide a knowledge of some of the principles of science about different types of energy, (2) consider energy consumption by society, (3) examine the advantages and disadvantages of each source of energy, and (4) construct a policy for an Energy Alternatives Race. There are no science or mathematics prerequisites. Essentially the course consists of lecture-demonstration, discussions, and reports. Winter session only.

Z 4902 199
THE SCIENCE IN SCIENCE FICTION 3.0
An exploration for the general student of some of the scientific and mathematical principles which underlie the speculative fiction of this century. Topics to be considered include astronomy, causality, chemistry, cosmology, computers, entropy, genetics, relativity and modern mathematics.

Z 4902 222
NEW JERSEY ENVIRONMENT: PROBLEMS AND
ISSUES 3.0
Designed to focus attention on the physical characteristics of New Jersey in order to appreciate and understand the problems encountered in issues involved in management and protection of the natural environment. The significance of location, characteristics and landforms, climate weather patterns, soil and vegetation will be examined together with the human impact on the landscape.

Z 4902 322
CONSUMER SCIENCE 3.0
Basic scientific principles in testing and evaluating consumer products. Field trips to local cooperating industries and testing agencies to evaluate processes and products.
Prerequisite: Junior or senior standing.

Political Science

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: William Batkay

Political Science is a branch of the social sciences concerned with the theory and practice of government and politics. There are six areas of interest a student may pursue: Political Thought and Philosophy, American Politics, Comparative Politics, International Politics, Public Administration, and Law.

The department also provides a Public Administration minor in order to give those seeking employment in state or local government the necessary background. It is open to all students.

Graduates in the political science major receive a Bachelor of Arts degree.

Political Science Major

Required Courses

	Semester Hours
2207 102 Institutions of American Government	3
2207 103 The American Political Process	3
2207 201 Comparative Politics	3
2207 202 International Relations	3
2207 300 Scope and Theories in Political Science	3
2207 408 Development of Political Thought to Machiavelli	3

Electives (Departmental)

Select 15 semester hours from the appropriate list to be obtained from the department 15

Political Science Minor

Required Courses

At least one course must be selected from three of the following four core areas:

	Semester Hours
American Government:	
2207 102 Institutions of American Government	3
2207 103 The American Political Process	3
Comparative Government:	
2207 201 Comparative Government and Politics	3
2207 303 The Politics of Development and Modernization	3
International:	
2207 202 International Relations	3
Theory:	
2207 307 American Political Thought	3
2207 408 Development of Political Thought to Machiavelli	3
2207 409 Modern Political Thought	3

Electives (Departmental)

Select 9 semester hours from the appropriate list obtained from the department 9
2207 200 Introduction to Politics is not acceptable
without departmental permission.

Public Administration Minor

Required Courses

	Semester Hours
2207 102 Institutions of American Government	3
2207 305 Introduction to Public Administration	3

Electives (Departmental)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Courses of Instruction

S 2207 102
INSTITUTIONS OF AMERICAN GOVERNMENT 3.0
The fundamentals of the U.S. Constitution, Congress, the presidency and the courts; their operations and interactions; civil liberties.
Prerequisite or corequisite for Paralegal minors.

S 2207 103
THE AMERICAN POLITICAL PROCESS 3.0
Essential elements of American political life such as parties, pressure groups, public opinion, public policy, and foreign affairs as they relate to the dynamics of the policy process.

S 2207 200
INTRODUCTION TO POLITICS 3.0
Government and politics in the contemporary world with particular reference to American politics and institutions. Not for political science majors.

S 2207 201
COMPARATIVE POLITICS 3.0
Constitutional principles, governmental institutions and political processes of selected contemporary states.

S 2207 202
INTERNATIONAL RELATIONS 3.0
Recent and contemporary world politics and the foreign relations and policies of selected states.

S 2207 203
INTERNATIONAL ORGANIZATIONS 3.0
Political and administrative institutions of international government with emphasis upon the United Nations and selected regional organizations.

S 2207 214
WOMEN IN POLITICS 3.0
The role of women in the functioning of the American political system.

S 2207 300
SCOPE AND THEORIES IN POLITICAL SCIENCE 3.0
The development of the discipline of political science; basic concepts and research trends; the behavioral movement and post-behavioral reactions.
Prerequisites: S 2207 102, 103.

S 2207 301
AMERICAN PARTY SYSTEM 3.0
Organization, function and practice of political parties in the U.S.; campaign functions, membership problems, political finance and policy formation practices.
Prerequisite: S 2207 102, or 103, or 200 or permission of instructor.

S 2207 302
PUBLIC OPINION AND PRESSURE GROUPS 3.0
The nature and development of public opinion and pressure groups in the United States and their influence on public policy and political process.
Prerequisite: S 2207 102, or 103, or 200, or permission of instructor.

S 2207 303
POLITICS OF DEVELOPMENT AND MODERNIZATION 3.0
The major contemporary schools of political modernization and development theory. Interrelationship among political, social and economic variables.

S 2207 304
STATE AND LOCAL GOVERNMENT 3.0
State political systems, including their administrative and local sub-systems. Federal-state and inter-state relations. The political institutions of New Jersey.
Prerequisite: S 2207 102, or 103, or 200, or permission of instructor.

S 2207 305
INTRODUCTION TO PUBLIC ADMINISTRATION 3.0
Literature and developments in the field of public administration. The federal bureaucracy in the policy-making process
Prerequisites: S 2207 102, or 103, or 200, or permission of instructor.

S 2207 306
CAMPAIGN POLITICS 3.0
This course is taught in election years and provides the student with field experience at the local precinct or party level.
Prerequisite: S 2207 102, or 103, or 200.

S 2207 307
AMERICAN POLITICAL THOUGHT 3.0
The development of American ideas covering political authority from Hamilton, Madison and Marshall to the present.
Prerequisite: S 2207 102, or 103, or 200, or permission of instructor.

S 2207 308
ETHNIC POLITICS IN AMERICA 3.0
The political behavior of American ethnic groups from the Puritans to the Puerto Ricans.
Prerequisite: S 2207 102, or 103, or 200, or permission of instructor.

S 2207 309
URBAN POLITICS 3.0
The policies, processes, interrelationships and organization of governments in heavily-populated areas.

S 2207 310
PUBLIC PERSONNEL ADMINISTRATION 3.0
The problems and processes in the U.S. of public personnel administration at the state and local level.
Prerequisite: S 2207 102, 305, or instructor's permission.

S 2207 311
GOVERNMENTAL BUDGETING 3.0
The budgetary process in governmental agencies from the perspective of political demands and influences.
Prerequisite: S 2207 102, 305.

- S 2207 315
URBAN ADMINISTRATION 3.0
Problems and policy-making in the larger urban or metropolitan complexes.
Prerequisite: S 2207 102, 305, or instructor's permission
- S 2207 316
CONTEMPORARY WESTERN EUROPEAN POLITICS 3.0
Government and politics of Great Britain, France, West Germany and Italy. Institutions, parties, ideologies and interest groups.
- S 2207 320
LAW IN SOCIETY: CIVIL LAW 3.0
This course will examine the American civil legal system as it affects a variety of our social institutions.
- S 2207 321
LAW IN SOCIETY: CRIMINAL LAW 3.0
Introduces the student to institutions, processes, and social functions of criminal law.
- S 2207 322
AMERICAN CONSTITUTIONAL LAW: THE FEDERAL SYSTEM 3.0
Interpretation of Supreme Court decisions in the areas of the distribution of power within the national government and between the national government and the states.
- S 2207 323
AMERICAN CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES 3.0
The development of the Constitution and the Supreme Court of the United States illustrated through reference to court opinions in civil rights and liberties.
- S 2207 330
AFRICAN FOREIGN POLICY 3.0
A consideration and analysis of the goals that the nation's foreign policy officials seek to attain abroad, the values that give rise to those objectives, and the means or instruments through which they are pursued.
Prerequisite: S 2207 202 or instructor's permission.
- S 2207 402
GOVERNMENT AND POLITICS OF AFRICA 3.0
Governmental and political development, organization and practices in sub-Saharan Africa.
Prerequisite: S 2207 201 or instructor's permission.
- S 2207 403
GOVERNMENT AND POLITICS OF CHINA-JAPAN 3.0
The government and politics of Japan, China and Korea in the contemporary world.
Prerequisite: S 2207 201 or instructor's permission.
- S 2207 404
GOVERNMENT AND POLITICS OF INDIA AND SOUTH ASIA 3.0
The political experiences and institutions of the Indian subcontinent since 1947. The Republic of India, Pakistan, Ceylon and Bangladesh.
Prerequisite: S 2207 201 or instructor's permission.
- S 2207 405
GOVERNMENT AND POLITICS OF LATIN-AMERICA 3.0
Governmental and political development, organization and practices in the states of Middle America and South America.
Prerequisite: S 2207 201 or instructor's permission.
- S 2207 406
GOVERNMENT AND POLITICS OF THE MIDDLE EAST 3.0
Government and politics in the Arab states, Turkey, Israel and Iran
Prerequisite: S 2207 201 or instructor's permission.
- S 2207 407
GOVERNMENT AND POLITICS OF U S S R 3.0
The political and institutional organizations of the Soviet Union. Contemporary political issues, party and governmental structures.
Prerequisite: S 2207 201 or instructor's permission.
- S 2207 408
DEVELOPMENT OF POLITICAL THOUGHT TO MACHIAVELLI 3.0
Selected major political philosophies from Plato and Aristotle through to Machiavelli.
- S 2207 409
MODERN POLITICAL THOUGHT 3.0
Selected political philosophers from Machiavelli to the present
- S 2207 410
DIRECTED STUDY 3-6.0
Juniors and seniors may elect three to six credits of independent study under the direction of a member of the Political Science staff.
- S 2207 412
GOVERNMENT AND POLITICS OF COMMUNIST EAST EUROPE 3.0
The political and governmental organizations of the communist countries of eastern and central Europe (exclusive of the U.S.S.R.). Institutions, practices and ideologies including inter-regional relations.
Prerequisite: S 2207 201 or instructor's permission.
- S 2207 413
AFRO-ASIAN FOREIGN POLICIES 3.0
The course will examine the position and role of new African and Asian nations in international politics in the post-World War II era.
Prerequisite: S 2207 303 or instructor's permission.
- S 2207 416
SELECTED TOPICS IN POLITICAL SCIENCE 3.0
This course allows the instructor to select a political problem which is either not covered in the curriculum or which deserves more in-depth treatment that is possible in a regular course.
- S 2207 420
SEMINAR AND INTERNSHIP IN POLITICAL SCIENCE 4.0
In this course students will work as interns for one semester in the office of a N.J. state legislator, U.S. congressperson or senator, or state or federal executive.
- S 2207 425
POLITICS OF FEDERAL BUREAUCRACY 3.0
In-depth examination of the federal bureaucracy in relationship with national, state and local agencies.
Prerequisite: S 2207 102.
- S 2207 426
SEMINAR AND INTERNSHIP IN PUBLIC ADMINISTRATION 5.0
A one semester public administration field experience in local government. Application must be made directly to the instructor in preceding semester.
Prerequisite: Instructor's permission

S 2207 427
**SEMINAR AND INTERNSHIP IN PUBLIC
 ADMINISTRATION II** 4.0
 A one semester public administration field experience in local govern-
 ment. Application must be made directly to the instructor in preceding
 semester.
Prerequisite: Instructor's permission.

S 2207 430
INTERNATIONAL LAW 3.0
 The nature and place of international law in the conduct of international
 relations.

S 2207 435
SENIOR HONORS SEMINAR 3.0
 The course will involve intensive research in a seminar setting for senior
 political science majors. Students will conduct original research and pre-
 sent reports to meetings of the seminar.
*Prerequisites: The course will be open only to senior majors with at least
 a 3.4 cumulative grade point average in political science.*



Psychology

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Roland Siiter

Undergraduate courses in psychology establish a sound basis for later
 professional or graduate training in psychology. As part of a broad liberal
 education, they satisfy the needs of students, majors and non-majors, and
 teach principles and techniques as intellectual tools for work in other so-
 cial and biological sciences and in professional fields such as social work,
 journalism, business and law. Courses required for teacher certification
 in the State of New Jersey, as described in the Teacher Education pro-
 gram, are provided.

In addition to a diverse general psychology program, the department
 offers a Community Psychology concentration and an Honors Seminar
 Program, as well as minors in Psychology and Community Psychology.

Psychology Major

Required Courses

	Semester Hours
2001 101 General Psychology I: Growth and Development	3
2001 203 General Psychology II: An Experimental Approach	3
2001 220 Quantitative Methods in Psychology	3
2001 301 Experimental Psychology	4

Electives (Departmental)

Select 24 semester hours from the appropriate list to be obtained from the
 department 24

Concentration Programs Within the Major

Community Psychology

Required Courses

	Semester Hours
2001 101 General Psychology I: Growth and Development	3
2001 203 General Psychology II: An Experimental Approach	3
2001 220 Quantitative Methods in Psychology	3

Specialization

2099 245 Introduction to Community Psychology	3
2099 385 Advanced Community Psychology	3
2099 387 Methods in Evaluation Research	4
2099 391 Cooperative Education in Psychology	9

Electives (Departmental)

	Semester Hours
2001 201 Child Psychology	3
2001 202 Adolescent Psychology	3
2001 225 Psychology of Adjustment	3
2001 227 Psychological Aspects of Human Sexuality	3
2001 230 Environmental Psychology	3
2001 231 Psychology of Aggression	3
2001 235 Psychology of Exceptional Children and Youth	3
2001 260 Social Psychology	3
2001 265 Psychology of Women	3
2001 268 Psychological Aspects of Aging	3
2001 305 Physiological Psychology	3
2001 310 Introduction to Psychological Testing	3
2001 332 Psychological Foundations of Personality	3
2001 341 Psychological Aspects of Consumer Behavior	3
2001 365 Abnormal Psychology	3

Electives (Interdepartmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Note: The community psychology concentration requires 31 semester hours of course work and 9 semester hours of applied experience. Check with the department for details.

Community Psychology Minor

Required Courses

	Semester Hours
2001 101 General Psychology I: Growth and Development	3
2099 245 Introduction to Community Psychology	3
2099 385 Advanced Community Psychology	3

Electives (Departmental)

	Semester Hours
2001 201 Child Psychology	3
2001 202 Adolescent Psychology	3
2001 225 Psychology of Adjustment	3
2001 227 Psychological Aspects of Human Sexuality	3
2001 230 Environmental Psychology	3
2001 231 Psychology of Aggression	3
2001 235 Psychology of Exceptional Children and Youth	3
2001 260 Social Psychology	3
2001 265 Psychology of Women	3
2001 268 Psychological Aspects of Aging	3
2001 305 Physiological Psychology	3
2001 310 Introduction to Psychological Testing	3
2001 332 Psychological Foundations of Personality	3
2001 341 Psychological Aspects of Consumer Behavior	3
2001 365 Abnormal Psychology	3

Electives (Interdepartmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Note: The community psychology minor requires 21 semester hours of course work. Check with the department for details.

General Psychology Minor

Required Courses

2001 101 General Psychology I: Growth and Development	3
2001 203 General Psychology II: An Experimental Approach	3

Electives (Departmental—300 level or above)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Electives (Departmental—general)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Teacher Certification (Social Sciences)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching.

Departmental course requirements include 27 semester hours of social science courses. Consult with an advisor for further information.

Teaching of Psychology Certification Endorsement

This endorsement is necessary for teaching psychology in elementary and secondary schools. The requirements are as follows:

A bachelor's degree based upon a four-year program in an accredited college.

A regular New Jersey teaching certificate.

Completion of 24 semester hours in Psychology including work in each of the following areas:

Developmental Psychology
Mental Health
Personality or Social Psychology
Experimental Psychology
Psychological Measurement

Check with the department for appropriate courses.

Courses of Instruction

T 2001 100
RE-ENTRY SEMINAR 2.0
Provides academic, career, and personal counseling during first semester adjustment period, group identification and support while developing renewed skills and ego strength. Offered only on a pass/fail basis.

T 2001 101
GENERAL PSYCHOLOGY I: GROWTH AND DEVELOPMENT 3.0
Psychology as an applied behavioral science. Human development, conflict and adjustment, social behavior, group processes, individual differences, personality theory and assessment, behavior disorders, and principles of conditioning, learning and forgetting.

T 2001 102
WOMAN'S WORLDS 3.0
This course introduces the general student to the broad and interdisciplinary field known as women's studies. It is designed to make students aware of the new discoveries in feminist research and to focus on many aspects of the female experience. The course is designed to help students understand different methodologies in diverse disciplines and to treat areas such as literature, history, psychology, and the arts through a thematic approach.

T 2001 103
FRESHMAN SEMINAR 3.0
Major objective is to better acclimate the beginning college student (freshman and transfers) to campus life through an emphasis on affective education and group interaction. Values clarification and self identity are important course components.

- T 2001 105**
PSYCHOLOGICAL STUDY OF SOCIAL ISSUES 3.0
 This course surveys the broad range of social problems which may be illuminated by psychological analysis. It is designed to demonstrate at an introductory level the methods by which psychologists gather evidence about social issues. It will focus on techniques that can be used beyond the laboratory and show the relationship between theoretical perspectives and applications to real-life.
- T 2001 109**
THE HUMAN ENVIRONMENT 3.0
 Interdisciplinary with geography. People's modification and understanding of the environment. Future human and environmental projections.
- T 2001 200**
EDUCATIONAL PSYCHOLOGY 3.0
 Required for teaching. Child and adolescent development. Fundamentals of learning theory as applied to classroom situations, learning inhibition and academic non-achievement, personal-social adjustment, measuring and evaluating, teaching-learning, creativity.
Prerequisite: T 2001 101.
- T 2001 201**
CHILD PSYCHOLOGY 3.0
 Growth, development and behavior of children. Physical, intellectual, social and emotional development and their interaction. Scientific method exemplified through the literature and intensive study of individual children.
Prerequisite: T 2001 101.
- T 2001 202**
ADOLESCENT PSYCHOLOGY 3.0
 Biological, psychological and social factors that shape the transition from childhood to adulthood. Normal and deviant patterns of development in morals, intellect, emotions and judgment. Problems of adolescents with practical application to oneself and others.
Prerequisite: T 2001 101.
- T 2001 203**
GENERAL PSYCHOLOGY II: AN EXPERIMENTAL APPROACH 3.0
 Emphasis on psychology as an experimental and research oriented science. Topics under investigation include experimental design, psychological measurement, physiology, perception, sensory processes, motivation, emotional behavior, and advanced topics in psychological learning theory.
Prerequisite: T 2001 101.
- T 2001 220**
QUANTITATIVE METHODS IN PSYCHOLOGY 3.0
 Descriptive statistics and introduction to statistical inference. Emphasis on practical application of statistical tools in testing and research. Topics include logic of statistics, organization and presentation of statistical data, measures of central tendency, variability, and relative position. Probability and the normal curve, measures of correlation, parametric and non-parametric tests of significance.
Prerequisite: T 2001 101.
- T 2001 225**
PSYCHOLOGY OF ADJUSTMENT 3.0
 Individual and social adjustment. Typical varieties of adjustive behavior illustrated by practical examples. Factors which facilitate or impede man's adaptation to life situations such as work, marriage, disability, etc.
Prerequisite: T 2001 101.
- T 2001 227**
PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY 3.0
 Behavior and attitudes influenced by basic sexuality widens perspectives to aid in decision making. Developmental periods and sexual relationships. Connections between psychological theory and sexual mores; genetic understandings.
Prerequisite: T 2001 101.
- T 2001 230**
ENVIRONMENTAL PSYCHOLOGY 3.0
 The influence of the physical environment on the behavior of organisms. Population growth and regulation. Crowding, sensory experience, enrichment and deprivation. Motivational force of environmental stimulation. Adaptation to environment as a function of prolonged exposure, salutary effects of aesthetically pleasing stimulation.
Prerequisites: T 2001 101.
- T 2001 231**
PSYCHOLOGY OF AGGRESSION 3.0
 The root causes of violence in America will be examined through case studies, (the protest-movement of the 1960's, sexual and physical abuse, violent-criminal activity, etc.) and familiarization with biochemical, psychological and socio-cultural research into causes and effects of aggression and violence.
Prerequisite: T 2001 101.
- T 2001 235**
PSYCHOLOGY OF EXCEPTIONAL CHILDREN AND YOUTH 3.0
 Surveys current practices and problems of exceptional children and youth. Explores the unique needs of individuals with handicaps that involve intellectual, sensory, motor, neurological, social and emotional origins. Utilizes analysis of case materials for theoretical and practical applications to the psychology of exceptionality.
Prerequisite: T 2001 101.
- T 2001 240**
INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 3.0
 Application of psychological principles and practices in business and industry. Problems of communication, group dynamics, man-machine relations, employee attitudes, accident prevention, industrial job selection techniques, motivation, executive leadership. Commonly used selection tests will be evaluated.
Prerequisite: T 2001 101.
- T 2001 248**
PSYCHOLOGY AND LAW 3.0
 Law and psychology share a common focus: the understanding, prediction and regulation of human behavior. Despite this commonality of interest, different emphasis on these elements and a different mandate have frequently hindered active communication and collaboration between the disciplines. The purpose of this course is to present the common ground of law and psychology, and show how they contribute to each other.
Prerequisites: T 2001 101.
- T 2001 260**
SOCIAL PSYCHOLOGY 3.0
 Focus on social behavior of the individual and the group, social perception, motivation, and learning. Attitudes and values. Development and dynamics of social groups. Inter-group tension and prejudice. Mass phenomena. Psychological approaches to social issues.
Prerequisites: T 2001 101.
- T 2001 265**
PSYCHOLOGY OF WOMEN 3.0
 The course will investigate contemporary issues in the psychology of women (an opportunity for original research will be provided). Theoretical positions and recent research in the area will be examined.
Prerequisite: Six semester hours in psychology.
- T 2001 268**
PSYCHOLOGICAL ASPECTS OF AGING 3.0
 Overview of later maturity and aging. Emphasis on psychological, physiological and sociological aspects. Aging and the cognitive process. Mental health, death, adjustment problems, needs, issues.
Prerequisite: T 2001 101.

- T 2001 301**
EXPERIMENTAL PSYCHOLOGY 4.0
 Introduction to laboratory methods of research in areas such as motivation, perception and learning. Emphasis is on design and execution of exploratory investigations. (3 hours lecture, 3 hours laboratory)
Prerequisite: T 2001 220.
- T 2001 305**
PHYSIOLOGICAL PSYCHOLOGY 3.0
 Anatomical, neural and biochemical bases of behavior are studied. Topics include localization of function, neuro-hormonal interaction, sensory and motor functioning, emotions, the relationship of neurophysiological processes and personality.
Prerequisite: T 2001 203 or instructor's permission.
- T 2001 308**
PERCEPTION 3.0
 The theory and procedure of perceptual research. Theoretical approaches reviewed; modern psychophysical and perceptual research. Traditional problems of perception, constancies of size and color brightness.
Prerequisite: T 2001 203 or instructor's permission.
- T 2001 310**
INTRODUCTION TO PSYCHOLOGICAL TESTING 3.0
 Tests of intelligence, aptitude, achievement and personality. Principles of psychological testing. Approaches to test construction.
Prerequisite: T 2001 220.
- T 2001 313**
COGNITION 3.0
 The study of the acquisition, storage, retrieval, and use of knowledge, utilizing behavioral, observational, and computer modeling methods.
Prerequisite: T 2001 203 or instructor's permission.
- T 2001 332**
PSYCHOLOGICAL FOUNDATIONS OF PERSONALITY 3.0
 Current approaches and theories of personality development and organization.
Prerequisite: T 2001 203.
- T 2001 340**
HUMAN LEARNING AND MEMORY 3.0
 Research, language and methods of learning theory. Classical and operant conditioning, complex habits, remembering and forgetting, transfer of training, cognition and behavior modification. Review of animal research but primary emphasis is on man.
Prerequisite: T 2001 203 or instructor's permission.
- T 2001 341**
PSYCHOLOGICAL ASPECTS OF CONSUMER BEHAVIOR 3.0
 Applications of the science of psychology to consumerism, consumer protection, questionnaire construction and opinion surveys, marketing and advertising.
Prerequisite: T 2001 220.
- T 2001 348**
PSYCHOLINGUISTICS 3.0
 The study of language through linguistic, behavioral, and cognitive methods. Basic linguistic ideas used for the explications of problems in grammar, cognitive structure, meaning, and speech production and comprehension.
Prerequisite: T 2001 203 or instructor's permission.
- T 2001 353**
COMPARATIVE PSYCHOLOGY 3.0
 The student will explore experimental and field studies of behavior in a few selected animal species with particular reference to the behavior of vertebrates. The program will involve detailed study of instinctive behavior and imprinting, respondent and operant behavior with emphasis upon the procedures and variables concerned with the acquisition of new forms of behavior.
Prerequisite: T 2001 203 or instructor's permission
- T 2001 355**
MOTIVATION 3.0
 The concepts of instincts, homeostasis, drive, reinforcement, arousal and inception are analyzed with reference to data drawn from many areas of experimentation. Primary emphasis on the experimental, rather than the theoretical literature. Motivational concepts relevant to human and animal research.
Prerequisites: T 2001 203 and 6 additional hours in psychology.
- T 2001 358**
FUNDAMENTALS OF CONDITIONING AND LEARNING 3.0
 Major theoretical problems and theories of learning are considered. Includes experimental analysis of basic phenomena of conditioning and learning, studied primarily through experimental studies of infra-human organisms. Students may study selected topics more extensively.
Prerequisite: T 2001 203 or instructor's permission.
- T 2001 360**
HISTORY AND SYSTEMS OF PSYCHOLOGY 3.0
 Historical developments of psychology. Comparative analysis of the major schools of contemporary psychology. New trends and movements in psychological theory.
Prerequisite: T 2001 203 and 6 additional hours in psychology.
- T 2001 365**
ABNORMAL PSYCHOLOGY 3.0
 Overview of psychopathological processes. Neuroses, psychoses, and characterological disorders. Feeling, thinking and behavioral aspects during the life span. Diagnostic and treatment procedures.
Prerequisite: T 2001 203, 225 or 332.
- T 2001 373**
PSYCHOLOGY AND LITERATURE 3.0
 Terminology and techniques of modern depth psychologies – Freudian, Jungian, Adlerian – to illuminate the literary portrayal of human character in masterpieces of world literature. Study organized into themes such as the quest for selfhood, the alienated individual, love and marriage, parents and children.
Prerequisite: Six semester hours in psychology or English.
- T 2001 400**
SEMINAR IN PSYCHOLOGY 3.0
 Intensive study on topics related to student and instructor interest. Forum for instructor specialization and small group interaction. Advanced students only.
- T 2001 402**
SOCIAL ROLE OF PSYCHOTHERAPIES 3.0
 The effects of various psychotherapies upon society, social institutions and social relationships. Impact of classical Freudian therapy, behaviorism, group and encounter movements.
Prerequisites: Two courses in psychology.
- T 2001 405**
PSYCHOLOGICAL ANTHROPOLOGY 3.0
 Transcultural focus on the interrelated nature of culture and human behavior. Team-taught interdisciplinary course with emphasis on mutual dependencies of psychological and anthropological theory and method. Student work with bi-cultural informants.
Prerequisites: T 2001 101, J 2202 100.

- T 2001 420
PACKAGED COMPUTER PROGRAMS FOR PSYCHOLOGY 1.0
An introduction to the use of statistical packages in the computer for the purpose of doing extensive statistical and analyses of data. One such package will be reviewed thoroughly among datatest, SPSS, SAS, bio-med. Principles of coding and keypunching will also be presented.
- T 2001 459
SPECIAL TOPICS IN PSYCHOLOGY 3.0
In-depth view of important theoretical and methodological issues in a specific area of psychology. The area to be covered is chosen by the instructor. The course permits the instructor and students to examine psychological issues which are either not covered in the curriculum or which deserve more in-depth treatment than is possible in a regular course. The course may be taken no more than twice as part of major or minor degree requirements in psychology.
- T 2001 463
PSYCHOLOGICAL FOUNDATIONS OF MUSIC I 2.0
Interrelations of physical and psychological aspects of music. Perception of music, experimental aesthetics, measurement and diagnosis of musical ability. Research methods in the study of musical phenomena. Independent research.
Prerequisites: T 2001 101, instructor's permission.
- T 2001 464
PSYCHOLOGICAL FOUNDATIONS OF MUSIC II 2.0
Continuation of T 2001 463.
Prerequisites: T 2001 101, instructor's permission.
- T 2001 465
PROBLEMS OF PERFORMANCE 3.0
Development of techniques needed for success in public appearances involving music, theatre, speech, etc. Resolving such problems as stage fright, memory loss, performance anxiety. Attaining self-understanding and confidence using techniques of Havas, Berne, Horrigol, Weekes, Alexander, others. Guest performers. Open to all majors. (Also listed under music as H 1004 465.)
- T 2001 470
CHILDREN'S RIGHTS AND CHILD ADVOCACY 3.0
The review and evaluation of the rights, privileges, and responsibilities of young citizens (preschool through adolescence). The process and goals of advocacy. The community services available to and lacking for the optimum development to maturity of young citizens. Psychology, education, sociology, mental health, law enforcement, medicine are domains of study and investigation.
Prerequisite: Junior standing and instructor's permission.
- T 2001 491
INDEPENDENT STUDY I 1.0-3.0
Individual project under supervision of a professor in the department.
Prerequisite: Instructor's permission.
- T 2001 492
INDEPENDENT STUDY II 1.0-3.0
Individual project under supervision of a professor in the department.
Prerequisite: Instructor's permission.
- T 2099 245
INTRODUCTION TO COMMUNITY PSYCHOLOGY 3.0
Integration of social psychology with mental health in the resolution of problems in the community. Social psychological theories and empirical strategies used to study the dynamics of power, membership, change and deviance. Accent also on comprehensive mental health center and roles of community psychologist.
Prerequisite: T 2001 101.
- T 2099 385
ADVANCED COMMUNITY PSYCHOLOGY 3.0
Supervision is provided in a variety of community action programs which have preventative as well as treatment goals. Day and hour assignments can usually be arranged, but effective study participation will require a 3 hour block of time in order to serve directly in a community setting.
Prerequisites: T 2001 101, T 2099 245 or instructor's permission.
- T 2099 387
METHODS IN EVALUATION RESEARCH 4.0
This course focuses on the application of psychological research methods and knowledge to the evaluation of the effectiveness or ineffectiveness of community programs. Emphasis will be on techniques for program planning and for constructive innovations in community settings.
Prerequisites: T 2001 220, majors only, T 2099 245, instructor's permission, T 2099 385, work in field.
- T 2099 391
COOPERATIVE EDUCATION IN PSYCHOLOGY 9.0
The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The co-op term is a semester off campus, during which a student is supervised by a faculty coordinator and the office of cooperative education, and is responsible for completing the terms of a learning contract.
Prerequisite: Junior status.

Sociology

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Meredith McGuire

Sociologists deal with varied questions about the social world and the lives of individuals within it. Some areas of concern may be: the way wealth and power affect society, major characteristics of contemporary family life, how individuals organize and influence their everyday social world. Taking sociology courses ensures that the student learns to confront these and other issues.

The sociology major provides the groundwork for fields such as teaching, crime prevention, social work, law, or social research. There are two minors in Applied Sociology, which may be taken in combination with the Sociology major or another major. One minor specializes in the application of Sociology to the Helping Professions (such as social work, police work, or the ministry); the other minor deals with the application of Sociology in work and industry.

The sociology department offers a Bachelor of Arts degree.

Sociology Major

Required Courses

	15 Semester Hours
2208 201 Foundations of Sociological Inquiry	3
2208 301 Sociological Research Method I	3
2208 313 Sociological Theory: Critical Analysis	3
2208 314 Statistics for Social Research	3
2208 300 Externship in Sociology	3
or	
2208 410 Social Action Practicum	3

Electives (Departmental)

Select 21 semester hours from the appropriate list to be obtained from the department 21
(9 semester hours must be selected from 300 or 400 level courses with appropriate approval.)

Note: It is important to try to meet the methods requirements during the junior year.

Applied Sociology Minor

EMPHASIS ON HELPING PROFESSIONS AND INSTITUTIONS

As part of its Applied Sociology program, the department has an emphasis on helping professions and institutions. It is open to students in all majors who are interested in pursuing careers in the human service field.

Required Courses

	Semester Hours
2208 336 The Sociology of Helping Professions and Institutions	3
2208 337 Methods and Techniques in the Helping Professions	3
2208 300 Externship in Sociology (Supervised Field Work) or	3
2208 410 Social Action Practicum (Supervised Field Work)	3

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Special clusters of electives are recommended for students who want expertise in helping professions dealing with the Aged or with Crime and Justice.

Applied Sociology Minor

EMPHASIS ON WORK AND INDUSTRY

The Sociology department's applied sociology minor includes a program on work and industry. This minor is open to students in all majors who are interested in applying sociological understanding to the areas of labor relations, professions, industrial and other work settings.

Required Courses

	Semester Hours
2208 304 Sociology of Work and Professions	3
2208 300 Externship in Sociology, or	3
2208 410 Social Action Practicum	3
2208 414 Selected Topics in Applied Sociology or	3
335 Workers and Their Organizations	3

Electives

Select 9 semester hours from the appropriate list to be obtained from the department 9

Note: It is possible to have further field experience by doing a project of your choice and taking 2208 310 Directed Independent Research as an elective.

Courses of Instruction

U 2208 100
THE SOCIOLOGICAL PERSPECTIVE 3.0
A systematic introduction to various sociological explanations of human behavior and social structures and processes.

U 2208 101
CRIMINOLOGY 3.0
Crime, the administration of criminal justice and criminal rehabilitation in American society. Cause and effect relationships in criminal deviancy, use of law in social control, and police and minority group relations.

U 2208 113
SOCIAL PROBLEMS 3.0
How social structure and dominant social institutions are related to problems of great concern to people; various approaches to the study of social problems; the implications of each.

- U 2208 200
SOCIOLOGY OF EDUCATION 3.0
The entire socialization process; the school as an institution in the process of social change. Distinguishing the concept of education from the institutional confines of the school; the implications of traditionally sacrosanct roles and statutes inherent to education. (Not to be used for teacher certification.)
- U 2208 201
FOUNDATIONS OF SOCIOLOGICAL INQUIRY 3.0
An introduction to the methods and theory of sociological inquiry. Topics include: comparison of dominant paradigms of sociological thought, critical analysis of basic concepts in the field, logic and rhetoric of sociological analysis, and ethical and value issues in the practice of sociology. Emphasis will also be placed upon writing sociology: documentation, literature search, organization and style.
Prerequisite: M 1501 105.
- U 2208 202
RACIAL AND ETHNIC RELATIONS 3.0
The social meaning of race and ethnicity. The social, psychological and structural sources of racism; the consequences of this phenomenon to groups; situation and comparative data.
- U 2208 203
SOCIOLOGY OF ORGANIZED CRIME 3.0
Organized crime as a sociological phenomenon. The methods and goals of large-scale crime and its economic, political and social costs; popular attitudes towards organized crime; efforts of enforcement and investigation agencies to deal with the problem.
- U 2208 204
SOCIOLOGY OF THE FAMILY 3.0
The family from a comparative and historical perspective; the structure and role of the family in contemporary society.
- U 2208 205
BLACK FAMILY 3.0
The black family in American society; historical perspectives and contemporary conflicts surrounding the black family.
- U 2208 206
INDIVIDUAL AND SOCIETY 3.0
Man as a biological, psychological and social being; the socialization process and its effect on the individual; the structure and function of groups.
- U 2208 207
SOCIAL STRUCTURE OF AMERICAN SOCIETY 3.0
Empirical materials on social structure; inter-institutional relations as the form of the broad, general structure of American society.
- U 2208 209
SOCIOLOGY OF POVERTY AND WELFARE 3.0
Poverty and welfare institutions as social phenomena. The meaning of poverty; Absolute and relative deprivation. The functions of social welfare institutions.
- U 2208 211
SOCIOLOGY OF HEALTH AND ILLNESS 3.0
Social conceptions of physical and mental health and illness; the social role of the "sick"; comparative medical beliefs and practices in American society; medical institutions and care; medical personnel and professional ideologies; the relationship between social stratification and health and illness.
- U 2208 212
SOCIOLOGY OF SOCIAL AND TECHNICAL CHANGE 3.0
The statics and dynamics of modern societies; Institutional development and maintenance; Possibilities for reform and revolutionary movements.
- U 2208 214
SOCIOLOGY OF VIOLENCE AND CONFLICT 3.0
The social sources of violence and conflict; The sociological approach contrasted with biological and psychological ones; Interpersonal and institutionalized violence and conflict; The relationship between conflict and violence, war, crime, class conflict, and ethnic and racial hostilities.
- U 2208 216
SOCIOLOGY OF FOOD AND POPULATION 3.0
This course will examine the ways in which people's food production and consumption patterns are affected by and related to other aspects of their social organization. The interrelationship between food production/consumption patterns, political life, stratification systems, and demography will be examined. The main focus will be a comparison between different forms of social organization with respect to the management of food and population issues.
- U 2208 218
SOCIOLOGY OF POPULATION 3.0
Population size variations; social change and concomitant changes in mortality, fertility and migration. Agricultural modernization and urbanization. Malthus, the neo-Malthusians and their critics; the theory of the demographic transition. Zero population growth and the new international order; family planning, population control and racism.
- U 2208 219
SOCIOLOGY OF AGING 3.0
Aging process from a sociological perspective. Demographic trends, sociological theories, sociocultural factors, aging in different societies and social movements among the elderly.
- U 2208 220
SOCIOLOGY OF RICH AND POOR NATIONS 3.0
This course focuses on the interrelationships between development and under development; and upon the division of the world into rich and poor nations. The phenomenon of underdevelopment is analyzed in sociological terms by emphasizing its demographic, stratification, migratory, ideological, educational, family and religious aspects.
- U 2208 300
EXTERNSHIP IN SOCIOLOGY 3.0-9.0
Students will select an institution in the metropolitan area in which to become participant-observer. Application of sociological perspective to the problems and structure of institutions encouraged through faculty supervision. Multiple semester selection permitted with approval.
- U 2208 301
SOCIOLOGICAL RESEARCH METHOD I 3.0
The formulation of hypotheses, survey design, participant observation and the use of elementary statistics; certain broad problems in the philosophy of social science.
- U 2208 303
LARGE SCALE ORGANIZATIONS 3.0
The structure and functions of bureaucracy in modern society; the life cycle of large organizations and their methods of operation; selected contemporary problems.
- U 2208 304
SOCIOLOGY OF WORK AND PROFESSIONS 3.0
The meaning of work in society; professionalization; occupation ideologies; social-psychological aspects of attitudes toward work and specific occupations; occupational stratification; social structures within which work takes place.
- U 2208 310
DIRECTED INDEPENDENT RESEARCH 3.0-9.0
Research and report under faculty direction. The student selects for investigation an area of sociological concern with the approval of a faculty supervisor. Multiple semester selection permitted with approval.

- U 2208 311
URBAN SOCIOLOGY 3.0
Processes of urbanization and conditions of urban life; nature of urban social relationships; organizations of city life; urban ecological patterns and demographic conditions; municipal and regional influences of metropolitan centers.
- U 2208 313
SOCIOLOGICAL THEORY: CRITICAL ANALYSIS 3.0
A comparison of important theories on key themes in sociology: the nature of social interaction, the definition of power, stratification, social control and deviance, alienation and anomie, social structure and function, social bases of knowledge and belief, and social conflict and change.
- U 2208 314
STATISTICS FOR SOCIAL RESEARCH 3.0
The use of descriptive summary and comparative techniques. Tools for the analysis of relationships in data generated in research, or for the evaluation of published research. (Recommended in preparation for the course in research methods.)
- U 2208 315
SOCIAL STRATIFICATION 3.0
The inequalities of social ranking systems in virtually all known societies; Theoretical and empirical approaches of stratification; Delineating the variables of power. Power elites, class consciousness, alienation and class mobility.
- U 2208 320
SOCIOLOGY OF INTENTIONAL COMMUNITIES 3.0
The sociology, history, and literature of communitarian ventures, with emphasis on contemporary communes, cooperatives and collectives. Literature and philosophy of Utopia will be explored through a sociological perspective.
- U 2208 321
WHITE COLLAR CRIME 3.0
An examination of the nature, scope, forms and styles of occupational and business-related criminal activities in the U.S., as well as its social, political and economic implications.
- U 2208 322
JUVENILE DELINQUENCY & JUVENILE JUSTICE 3.0
This course will deal with the major sociological explanations of juvenile delinquency. The relationship between juvenile crime and justice and the socio-economic and institutional arrangements of the larger society will be the primary focus.
- U 2208 330
POLITICAL SOCIOLOGY 3.0
This course will endeavor to give the student a relatively complete understanding of the social dynamics of political actions on various levels.
- U 2208 331
SOCIOLOGY OF POWER 3.0
The nature of power; power on the national level in the United States; alternative theoretical approaches; the historical origins of several of these theories.
- U 2208 334
COMPARATIVE SOCIAL ANALYSIS 3.0
Comparative sociological schemes; the analytical blocks of total society. Kinship, family and marriage, policy and bureaucracy; social stratification and mobility; industrialization and urbanization; belief systems and value orientations.
- U 2208 335
WORKERS AND THEIR ORGANIZATIONS 3.0
The course aims to provide the student with a general overview of the nature of work in modern society and of the ways in which workers react to it. In particular, the ways in which workers' organizations develop, and are shaped by community and political forces, will be an important focus.
- U 2208 336
THE SOCIOLOGY OF HELPING PROFESSIONS AND INSTITUTIONS 3.0
This course focuses on the social functions, determinants, and consequences of helping professions such as social work, and helping institutions such as public welfare. Particular emphasis is placed on the relations of helping professions and institutions with their socio-political environment and with their clients.
- U 2208 337
METHODS AND TECHNIQUES IN THE HELPING PROFESSIONS 3.0
This course focuses on the social processes involved in working with and helping people in such endeavors as social work and in such settings as hospitals. Particular emphasis is placed on understanding the dominant contemporary methods and techniques which are used to provide help to those in need.
- U 2208 390
COOPERATIVE EDUCATION IN SOCIOLOGY 8.0
The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The co-op term is a semester off campus, during which a student is supervised by a faculty coordinator and the office of cooperative education and is responsible for completing the terms of a learning contract.
- U 2208 402
SOCIAL CONTEXTS OF MENTAL ILLNESS AND TREATMENT 3.0
Social conceptions of mental health and illness; social factors in the causes and treatment of mental illness; mental institutions – their structures and ideologies; comparative psychotherapies in social context; mental health personnel and professional ideologies; social movements and mental health and illness.
- U 2208 404
SOCIOLOGY OF RELIGION 3.0
The social bases of religious belief and activity. Religious movements, denominationalism, sectarianism, secularization, pluralism, the social bases of belief and unbelief, and cross-cultural and historical comparisons.
- U 2208 405
DEVIANCE AND SOCIAL CONTROL 3.0
Various theoretical perspectives on human deviance; the interaction of the forces of social control and "deviant" behavior.
- U 2208 407
SOCIOLOGY OF MASS MEDIA 3.0
The social aspects of the organization and functioning of television, radio, press, magazines, film and other media. The media in social control, in information and other communication, and as forces influencing behavior.
- U 2208 408
SOCIAL MOVEMENTS 3.0
This course focuses on the study of concerted collective behavior for social change, or social movements. Various approaches to the understanding of social movements, including the natural history, case study, and analytical models, will be examined. Emphasis will be placed on relating theoretical work to contemporary empirical examples to social movement activity.

U 2208 410
SOCIAL ACTION PRACTICUM 3.0-9.0
 Students, individually or in groups, design and implement field research and activity with an explicit, culturally defined objective, as an exercise in "applied sociology".

U 2208 411
SELECTED TOPICS IN SOCIOLOGICAL THEORY 3.0
 The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to only the general area of sociological theory.

U 2208 412
SELECTED TOPICS IN SOCIOLOGICAL RESEARCH METHODS 3.0
 The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to projects or study in research methodology.

U 2208 413
SELECTED TOPICS IN INSTITUTIONAL PROCESSES 3.0
 The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to a consideration of problems in institutional processes.

U 2208 414
SELECTED TOPICS IN APPLIED SOCIOLOGY 3.0
 The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to the application of sociological methodology, theory or content to social situations, or to community issues or problems.

U 2208 420
SOCIOLOGY OF LAW 3.0
 The impact of the social usages of law on all levels of operation as an instrument of social policy, social control and social regulation.

U 2208 421
SOCIAL USES OF LANGUAGE 3.0
 To explore the function of language in everyday life, focusing on the implications of the sociology of language for the understanding of such other areas of religion, and social change.

U 2208 430
SOCIOLOGY OF SEX ROLES 3.0
 The social determinants of differences between women and men and the effect of sex role differentiation in the social institutions of marriage and family, the economy and work situation, formal education, health, mass media, and religion. Special emphasis is placed on the impact of social change on sex roles in contemporary society.

Spanish and Italian

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Vincenzo Bollettino

The major in Spanish or Italian develops sound scholarship by helping the student acquire linguistic fluency along with an understanding of Italian and Hispanic cultures.

Candidates for the B.A. choose an area of study in the Italian language, literature and culture; the Spanish language, Peninsular Spanish literature and culture and Spanish American literature and culture. The department offers courses for teacher certification in Spanish and Italian and a concentration in translating and interpreting in Spanish.

Majors are urged to spend a year, a semester, or a summer studying in Italy or a Spanish speaking country. This study should be planned for the junior year. Majors who intend to pursue graduate studies are advised to acquire proficiency in at least one additional language.

Students may minor in Italian or Spanish; select second teaching fields in either language; or pursue interdisciplinary minors in Hispanic community affairs or paralegal studies. In addition, a minor program in Portuguese studies is offered.

Spanish Major

Required Courses

	Semester Hours
24 semester hours:	
1105 141 Grammar and Composition I	3
1105 142 Grammar and Composition II	3
1105 151 Masterpieces of Spanish Literature I	3
1105 152 Masterpieces of Spanish Literature II	3
1105 161 Masterpieces of Spanish-American Literature I	3
1105 162 Masterpieces of Spanish-American Literature II	3
1105 260 Spanish Cultural History	3
1105 270 Spanish-American Cultural History	3

Electives (Major)

Select 12 semester hours with at least one course from literature and one from language. Obtain elective list from the department.

Spanish Minor

Required Courses

	Semester Hours
18 semester hours:	
1105 141 Grammar and Composition I	3
1105 142 Grammar and Composition II	3
1105 152 Masterpieces of Spanish Literature II	3
1105 162 Masterpieces of Spanish-American Literature II	3
1105 260 Spanish Cultural History	3
or	
1105 270 Spanish American Cultural History	3

Electives (Major)

Select 3 semester hours in a literature course.

Hispanic Community Affairs Minor

Required Courses

1105 472	Puerto Rican Literature and Thought	3
or		
1105 280	Cuban Cultural History	3

Electives

Select 12 semester hours in courses from the interdepartmental list obtained from the department of Spanish and Italian.

Field Work

	Semester Hours
Select 3 courses	
1105 360 Hispanic Community Program	3
1105 481 Field Work I	3
1105 482 Field Work II	3
1105 483 Field Work III	3

Paralegal Studies Minor

The Paralegal Studies Minor, in combination with any number of diverse majors, prepares the student to work in many legally-related fields. This ABA approved program is 24 semester hours. An optional Hispanic Specialization, through internship and training offered in the Spanish department, is available to students fluent in Spanish. For a complete description of the Paralegal Studies Program, contact the Center for Legal

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching. As part of the professional sequence students must take 1105 419 The Teaching of Spanish in Secondary Schools.

Second Teaching Field in Spanish

Required Courses

	Semester Hours
24 semester hours:	
1105 141 Grammar and Composition I	3
1105 142 Grammar and Composition II	3
1105 209 Introduction to Spanish Phonetics	3
1105 260 Spanish Cultural History, or	3
1105 270 Spanish-American Cultural History	3
1105 309 Spanish Conversation	3
1105 410 Advanced Spanish Grammar	3

Electives (Major)

Select 6 semester hours in literature courses from the appropriate list to be obtained from the department.

NOTE: If a student has not studied a methods course in foreign language teaching, it is necessary to take 1105 419, The Teaching of Spanish in Secondary Schools.

Concentration in Translating and Interpreting

Required Courses

	Semester Hours
1105 350 Translating I	3
1105 351 Translating II	3
1105 452 Translating III	3
1105 450 Introduction to Interpreting	3

The concentration in translating and interpreting is designed to enhance the preparation of Spanish majors who are considering careers in diplomatic service, business, social service or law or who have an interest in literary translation.

Students who have successfully completed Translating III are eligible to take the certification examination given each year in May.

Portuguese Minor

Course Offerings

1198, 101, 102	Portuguese I and II (beginning level)	3
1198, 103, 104	Portuguese III and IV (intermediate level)	3
1198 141, 142	Portuguese Grammar and Composition I and II (advanced level)	3 ea.
1198 160	Masterpieces in Portuguese Literature	3
1198 162	Masterpieces in Brazilian Literature	3
1198 221	Commercial Portuguese	
1198 260	Luso-Brazilian Culture	3
1198 350	Translating I	
1198 385	Cooperative Education	

For a minor in Portuguese, a student selects 18 semester hours from 1198 103 and above.

Italian Major

Required Courses

18 Semester hours:

1104 141	Italian Grammar and Composition I	3
1104 142	Grammar and Composition II	3
1104 260	Italian Cultural History	3
1104 240	Italian Literature: Origins to 18th Century	3
1104 241	Italian Literature: 18th to 20th Centuries	3

Electives (Major)

Select 21 semester hours from the appropriate list obtained from the department with at least one course from literature and one from language.

Italian Minor

Required Courses

18 semester hours:

1104 141	Italian Grammar and Composition I	3
1104 142	Grammar and Composition II	3
1104 260	Italian Cultural History	3
1104 240	Italian Literature: Origins to 18th Century	3
1104 241	Italian Literature: 18th through 20th Centuries	3

Elective

Select 3 semester hours from the appropriate list obtained from the department.

Teacher Certification

Students interested in teaching Italian must be admitted to the Teacher Education program. See the department of Curriculum and Teaching for admission requirements and professional sequence. As part of the professional sequence for Italian this course must be taken:

1104 419	The Teaching of Italian in Secondary Schools	3
----------	--	---

Second Teaching Field in Italian

24 semester hours:

1104 141	Italian Grammar and Composition I	3
1104 142	Italian Grammar and Composition II	3
1104 260	Italian Cultural History	3
1104 209	Italian Conversation	3
1104 240	Italian Literature: Origins to 18th Century	3
1104 241	Italian Literature: 18th through 20th Centuries	3
1104 410	Italian Grammar for Teachers	3

Elective

Select 3 semester hours from the appropriate list obtained from the department.

NOTE: If a student has not studied a methods course in foreign language teaching, it is necessary to take 1104 419, The Teaching of Italian in Secondary Schools.

Courses of Instruction

V 1104 101
ITALIAN I 3.0
For students with no previous knowledge of Italian. This course imparts the basic foundations in the language.

V 1104 102
ITALIAN II 3.0
Training in understanding, speaking, reading and writing the language. A continuation of Italian I
Prerequisite: V 1104 101 or equivalent.

V 1104 103
ITALIAN III 3.0
A continuation of Italian II to strengthen the four language skills.
Prerequisite: V 1104 102 or equivalent.

V 1104 104
ITALIAN IV 3.0
A continuation of Italian III to strengthen the basic language skills through reading and composition.
Prerequisite: V 1104 103 or equivalent.

V 1104 120
COMPREHENSIVE ITALIAN I AND II 3.0
Beginning Italian I and II in one semester.

V 1104 140
COMPREHENSIVE ITALIAN III AND IV 3.0
Intermediate Italian III and IV in one semester.
Prerequisite: V 1104 102 or equivalent.

V 1104 141
ITALIAN GRAMMAR AND COMPOSITION I 3.0
Gives students better control of the structure of the language through written and oral practice. Required for majors.
Prerequisite: V 1104 104 or equivalent.

V 1104 142
GRAMMAR AND COMPOSITION II 3.0
Mastery of the language through written and oral exercises. Review of advanced grammar. Required for majors.
Prerequisite: V 1104 141.

V 1104 209
ITALIAN CONVERSATION 3.0
Practice in spoken Italian through assigned topics and discussions about daily life and world events. An opportunity to acquire an adequate vocabulary and competence in Italian as an instrument of oral expression.
Prerequisite: V 1104 104.

V 1104 221
COMMERCIAL ITALIAN 3.0
This course has been prepared for students majoring or minoring in Italian, or who can demonstrate appropriate linguistic ability in Italian, who wish to study the vocabulary, protocol and styles of correspondence, and documents common to the Italian-speaking business world.
Prerequisite: V 1104 142 or equivalent.

V 1104 240
STUDIES IN ITALIAN LITERATURE: ORIGINS TO 18th CENTURY 3.0
Representative works from the Scuola Siciliana to the 18th century analyzed and discussed. Required for majors.
Prerequisite: V 1104 104.

V 1104 241
STUDIES IN ITALIAN LITERATURE: 18th THROUGH 20th CENTURIES 3.0
Representative works of the 18th through 20th centuries analyzed and discussed to prepare students for the analysis of literary works. Required for majors.
Prerequisite: V 1104 104.

V 1104 260
ITALIAN CULTURAL HISTORY 3.0
This course is designed to acquaint the students with the complex and rich texture of Italian civilization from its beginnings to the present. The development of Italian arts, music and theater as well as major social and political institutions, religion, etc. will be considered against the background of Italian history. Required of majors.

V 1104 275
ITALIANS AND ITALIAN-AMERICANS: COMPARATIVE STUDIES 3.0
This course shows the relationship between the Italian and Italian-American experiences. It deals with aspects of religion, politics, language, work and moral codes. Comparisons are made with experiences of other ethnic groups in America. The course is taught with an interdisciplinary approach. (Taught in English.). Cross-listed as K 4903 176 and 3 0821 275.

V 1104 276
THE ITALIAN CINEMA 3.0
Development of the Italian cinema from neo-realism to today, in particular dealing with the following directors: Rossellini, Fellini, De Sica, Zavattini, Bertolucci, Pasolini, Antonioni, Germi and Wertmueller. (Taught in English.) Cross-listed as K 4903 277.

V 1104 277
ITALIAN LITERATURE OF THE 18th CENTURY 3.0
Representative works of the most important writers of this century: Goldoni, Parini, Alfieri, and others will be read and analyzed.
Prerequisite: V 1104 240.

V 1104 341
ITALIAN LITERATURE OF THE RENAISSANCE I 3.0
The development of humanism in Italy through a study of significant works of representative authors of the 14th, 15th and 16th centuries. Emphasis on select works of Petrarch and Boccaccio.
Prerequisites: V 1104 240, 1104 241.

- V 1104 342
ITALIAN LITERATURE OF THE RENAISSANCE II 3.0
The development of humanism in Italy through a study of significant works of representative authors of the 14th, 15th and 16th centuries. Selected readings from Lorenzo de Medici, Poliziano, Pulci, Boiardo, Ariosto, Tasso, Machiavelli and others.
Prerequisites: V 1104 240 and 241.
- V 1104 350
TRANSLATING 3.0
The course will cover general theoretical and philosophical problems of translation and specific problems encountered in the actual translation of different types of texts ranging from literary works to daily communications.
Prerequisite: V 1104 142.
- V 1104 351
ITALIAN LITERATURE OF THE 20th CENTURY I 3.0
Particular attention to the contemporary period. Pirandello, Saba, Ungaretti, Montale, and Quasimodo.
Prerequisite: V 1104 241.
- V 1104 352
ITALIAN LITERATURE OF THE 20th CENTURY II 3.0
Particular attention to the contemporary period. Pavese, Moravia, Silone, Vittorini, and others.
Prerequisite: V 1104 241.
- V 1104 361
ITALIAN LITERATURE OF THE 19th CENTURY I 3.0
Neo-classicism, romanticism, and verismo: Foscolo, Manzoni, and Leopardi.
Prerequisite: V 1104 241.
- V 1104 362
ITALIAN LITERATURE OF THE 19th CENTURY II 3.0
Neo-classicism, romanticism, and verismo. Carducci, Pascoli, Verga, and D'Annunzio.
Prerequisite: V 1104 241.
- V 1104 371
ITALIAN LITERATURE OF THE 13th and 14th CENTURIES 3.0
The most important representatives of the Sicilian and Tuscan Schools, with particular attention to the Dolce Stil Novo and the works of Dante.
Prerequisite: V 1104 240.
- V 1104 375
STUDY ABROAD 3.0
Study at an Italian university. Opportunity to gain first hand knowledge of the historical, social, economic and cultural life of Italy. Credit by evaluation.
Prerequisite: Permission of department chairperson.
- V 1104 385
COOPERATIVE EDUCATION 4.0-8.0
This course provides an opportunity to extend academic resources beyond the campus by placing the student in meaningful learning situations with thoroughly screened and approved employers. Each chosen situation is to prepare the student to play a dynamic role in society.
Prerequisites: Junior or senior standing, 3.00 cumulative grade point average in Spanish courses, department coordinator's permission, department chairperson's permission, and approval of office of cooperative education.
- V 1104 410
ITALIAN GRAMMAR FOR TEACHERS 3.0
A review of the most important structural features of Italian with special emphasis on those areas of interference with English which present the greatest difficulties for the student of Italian. Open to all Italian majors.
Prerequisite: V 1104 142.
- V 1104 461
DANTE SEMINAR I 3.0
Medieval thought as represented in Dante's works. A selection of readings from Vita Nova, Convivio, Monarchia. Analysis and exegesis of Inferno
Prerequisites: V 1104 240, V 1104 241.
- V 1104 462
DANTE SEMINAR II 3.0
Medieval thought as represented in Dante's works. A selection of readings from Vita Nova, De Vulgari Eloquentia, Convivum, and Divina Commedia read and analyzed.
Prerequisites: V 1104 240, V 1104 241.
- V 1104 480
INDEPENDENT STUDY 3.0
Directed independent study and research in Italian. Open to students with a minimum of 3.0 cumulative average in at least 9 hours of Italian electives.
Prerequisites: 24 hours of major Italian credits.
- V 1105 101
SPANISH I 3.0
For students with no previous Spanish. Training in understanding, speaking and writing the language.
- V 1105 102
SPANISH II 3.0
Training in understanding speaking, reading and writing the language. A continuation of Spanish I.
Prerequisite: V 1105 101 or equivalent.
- V 1105 103
SPANISH III 3.0
A continuation of Spanish II to strengthen the language skills of understanding, speaking, reading and writing of the language.
Prerequisite: V 1105 102 or equivalent.
- V 1105 104
SPANISH IV 3.0
A continuation of Spanish III to strengthen the skills of understanding, speaking, reading and writing of the language.
Prerequisites: V 1105 103, V 1105 120 or equivalent.
- V 1105 105
PRACTICAL SPANISH FOR LEGAL PERSONNEL 3.0
Course designed to provide personnel dealing with Hispanics in legally-related situations with a basic knowledge of the Spanish language as it relates to the performance of their jobs in assisting Hispanics. Not for major credit.
- V 1105 120
COMPREHENSIVE SPANISH I AND II 3.0
Beginning Spanish I and II in one semester.
- V 1105 140
COMPREHENSIVE SPANISH III AND IV 3.0
Intermediate Spanish III and IV in one semester.
Prerequisite: V 1105 102 or 120.
- V 1105 141
SPANISH GRAMMAR AND COMPOSITION I 3.0
This course is designed to give students an active command of the language by means of oral and written exercises, accompanied by a thorough review of the grammar, vocabulary, and idioms. Required for majors.
Prerequisite: V 1105 140 or equivalent.

- V 1105 142
SPANISH GRAMMAR AND COMPOSITION II 3.0
This course is designed to improve the student's mastery of the language through written and oral exercises accompanied by a review of advanced grammar. Required for majors.
Prerequisite: V 1105 141.
- V 1105 150
INTRODUCTION TO HISPANIC LITERATURE 3.0
The course proposes to identify the characteristics of various literary genres and define the inner workings of a piece of literature. Selections from the epic poem, the ballad, drama, satirical essays, philosophical novels, etc., will be used to enable the student to define the uniqueness of each genre. Certain forms of literature such as the *jarcha*, *romance*, *zerjel*, peculiar to the Spanish literary tradition will also be analyzed. The role of the author, the uses of images and irony, the narrative point of view, etc., will be stressed as essential to literary criticism. Required for majors.
Prerequisite: V 1105 132, or 140, or equivalent.
- V 1105 151
MASTERPIECES OF SPANISH LITERATURE I 3.0
The course is designed to introduce the students to Spain's literary history through an analysis of its major works, movements, and cultural trends from the medieval period to 18th century. Required for majors.
Prerequisite: V 1105 104, 140 or equivalent.
- V 1105 152
MASTERPIECES OF SPANISH LITERATURE II 3.0
The course is designed to introduce the student to Spain's literary history through an analysis of its major works, movements, and cultural trends from 18th century to the present. Required for majors.
Prerequisite: V 1105 104, 140 or equivalent.
- V 1105 161
MASTERPIECES OF SPANISH-AMERICAN LITERATURE I 3.0
The aim of the course is to give the student a general and comprehensive understanding of Spanish-American literature from pre-Columbian times to the latter part of the 19th century. Required for majors.
Prerequisite: V 1105 104, 140 or equivalent.
- V 1105 162
MASTERPIECES OF SPANISH-AMERICAN LITERATURE II 3.0
The aim of the course is to give the student a comprehensive understanding of Spanish-American literature from the beginning of modernism to the contemporary period. Required for majors.
Prerequisite: V 1105 104, 140 or equivalent.
- V 1105 209
INTRODUCTION TO SPANISH PHONETICS 3.0
Spanish phonetics and phonemics: theory and practice. Comparative analysis of Spanish and English phonology. The language laboratory is used extensively. Required for teacher certification.
Prerequisite: V 1105 104 or V 1105 140.
- V 1105 221
COMMERCIAL SPANISH 3.0
For students interested in the business field: styles of letter writing, business vocabulary, legal terminology. Emphasis on written fluency and expression.
Prerequisite: V 1105 141.
- V 1105 260
SPANISH CULTURAL HISTORY 3.0
The political, social, philosophical, literary and artistic ideas and institutions of Spain. Required for majors.
Prerequisites: V 1105 104 or V 1105 140.
- V 1105 265
THE SPANISH-AMERICAN NOVEL 3.0
Development of the Spanish-American novel up to 1945.
Prerequisites: V 1105 161, 162.
- V 1105 270
SPANISH-AMERICAN CULTURAL HISTORY 3.0
Development of the politics, art and philosophy of the Spanish-speaking nations of the western hemisphere. Required for majors.
Prerequisites: V 1105 104 or V 1105 140.
- V 1105 280
CUBAN CULTURAL HISTORY 3.0
A survey of the Cuban cultural development from the time of the discovery of Cuba to the present. This course is especially designed to acquaint the Cuban born or the Cuban-American student with his cultural roots and to inform other interested Hispanic and Anglo-American students about the cultural heritage of Cuba.
Prerequisite: V 1105 104, 140 or equivalent.
- V 1105 309
SPANISH CONVERSATION 3.0
Practice in spoken Spanish through assigned topics and participation in discussions about daily life and world events. Gives a competence in Spanish as an instrument of oral expression. Classes limited to 16 students. Required for teacher certification. Native speakers of Spanish must substitute another elective.
Prerequisite: V 1105 142.
- V 1105 316
SKILLS FOR BILINGUAL LEGAL PERSONNEL 3.0
Study of translation, interpretation, and cultural fluency as applied to the legal field, especially to the role of bilingual paralegals. Course will count as one of the legal specialty courses within the paralegal studies program - Hispanic specialization.
Prerequisites: Fluency in Spanish and English. Not for major credit.
- V 1105 350
TRANSLATING I 3.0
Introduction to the techniques of translating Spanish/English and English/Spanish. Students translate actual documents and texts from a wide variety of fields in order to gain experience in methods of analysis, research and verification.
Prerequisites: V 1105 141, 142.
- V 1105 351
TRANSLATING II 3.0
A continuation of Translating I. Materials chosen for translation reflect the career interests of the students in the class. Emphasis on professional ethics and the rudiments of translation theory.
Prerequisite: V 1105 350.
- V 1105 352
PRACTICUM IN TRANSLATING 3.0
This course is designed to provide students with the practical experience of translating in semi-professional situations under faculty supervision.
Prerequisite: V 1105 350.
- V 1105 360
HISPANIC COMMUNITY PROGRAM 3.0
Interdisciplinary approach to field work in an area of the Spanish-speaking communities in New Jersey: Internships in Law, Psychology, and Social Awareness. Open to any student in the college with a working knowledge of Spanish.
Prerequisite: Permission of instructor.
- V 1105 368
CONTEMPORARY SPANISH AMERICAN SHORT STORY 3.0
Trends in the contemporary short story. The short story as an important genre in Spanish American letters.
Prerequisites: V 1105 161, 162.

- V 1105 370
CONTEMPORARY SPANISH AMERICAN POETRY 3.0
A study of contemporary Spanish American poetry from its roots in modernism to the present day.
Prerequisites: V 1105 161, 162.
- V 1105 371
SPANISH POETRY AND DRAMA OF THE 19th CENTURY 3.0
A critical study of the main works of this century beginning with Duque de Rivas and Espronceda through Galdós.
Prerequisites: V 1105 151, 152
- V 1105 375
STUDY ABROAD 3.0
Study at a university in a Spanish-speaking country to gain firsthand knowledge of the historical, social, economic and cultural life.
Prerequisites: *Permission of department chairperson. Credit by evaluation.*
- V 1105 385
COOPERATIVE EDUCATION 4.0-8.0
This course provides opportunity to extend academic resources beyond the campus by placing the student in meaningful learning situations with thoroughly screened and approved employers. Each chosen situation is to prepare the student to play a dynamic role in society.
Prerequisites: *Junior or senior standing, 3.00 cumulative grade point average in Spanish courses, department coordinator's permission, department coordinator's permission, department chair person's permission, and approval of office or cooperative education.*
- V 1105 410
ADVANCED SPANISH GRAMMAR 3.0
This course is a review of the most important structural features of Spanish, with special emphasis in those areas of interference with English structure which present the greatest difficulties to the student of Spanish. Required for teacher certification. Open to all Spanish majors.
- V 1105 419
THE TEACHING OF SPANISH IN SECONDARY SCHOOLS 3.0
Values and aims in foreign language teaching, survey of methods, pronunciation, reading, grammar, reviews, realia, examinations, supervised study, etc. Readings and discussions, lesson planning and demonstrations, and organization of material for student teaching. Required for certification.
Prerequisite: *Senior standing.*
- V 1105 450
INTRODUCTION TO INTERPRETING 3.0
This course is designed to teach students the specialized techniques of oral interpreting and to prepare them for a career in the field. Visits to observe professional interpreters at work will be arranged.
Prerequisites: V 1105 350, 351.
- V 1105 452
TRANSLATING III 3.0
Under careful supervision, the student will prepare a translation project, usually consisting of the translation of a text of approximately 50 typewritten pages.
Prerequisites: V 1105 350, 351.
- V 1105 460
EL QUIJOTE 3.0
The literary and social background, structure, themes and style of El Quijote.
Prerequisites: V 1105 151, 152.
- V 1105 465
SPANISH THEATRE OF THE 20th CENTURY 3.0
Principal trends of the Spanish theatre from Benavente to the contemporary dramatists.
Prerequisites: V 1105 151, 152
- V 1105 470
SENIOR SEMINAR 3.0
Selected topics from Spanish and Spanish-American literature are studied in depth.
Prerequisite: *Senior majors only or permission of instructor*
- V 1105 472
PUERTO RICAN LITERATURE AND THOUGHT 3.0
Insight into the literature and philosophy of the Caribbean Hispanic world, contemporary Puerto Rican writers and the Puerto Rican influence in the United States.
Prerequisites: V 1105 161, 162.
- V 1105 480
INDEPENDENT STUDY 3.0
Directed independent study and research in Spanish. Open to students with a 3.0 cumulative average in at least 9 semester hours of Spanish electives.
Prerequisites: *24 hours of major Spanish credit.*
- V 1105 481
FIELD WORK IN HISPANIC COMMUNITY I 3.0
Required course in the academic minor in Hispanic community affairs. Students will devote 90 hours work in the area in which they choose to concentrate: child care centers, mental health clinics, recreation activities, social agencies, etc. In addition, the students must carry out an independent project related to their work. Not for major credit.
Prerequisite: V 1105 360.
- V 1105 482
FIELD WORK IN HISPANIC COMMUNITY II 3.0
A continuation of 1105 481. Student may continue in chosen job center, or may choose a new placement. 90 hours work required for completion of credit. Not for major credit.
Prerequisite: V 1105 481 or permission of instructor.
- V 1198 101
PORTUGUESE I 3.0
For students with no previous knowledge of Portuguese. Training students to understand, speak, read and write the language.
- V 1198 102
PORTUGUESE II 3.0
A continuation of Portuguese I, furthering the training in the understanding, speaking, reading and writing of the language.
Prerequisite: V 1198 101 or equivalent.
- V 1198 103
PORTUGUESE III 3.0
Strengthening the basic language skills established in Portuguese II through advanced grammar and selected readings.
Prerequisite: V 1198 102 or equivalent.
- V 1198 141
PORTUGUESE GRAMMAR AND COMPOSITION I 3.0
Advanced course on Portuguese grammar to afford student an opportunity to practice in composition and conversation such points of structure and usage as sentence construction, agreement, prepositions, sequence of tenses, the subjunctive, and uses of *ser* and *estar*.
Prerequisite: V 1198 104.

V 1198 142
PORTUGUESE GRAMMAR AND COMPOSITION II 3.0
 This course continues the examination and review of grammatical structures and usage, and provides the students further opportunity to perfect their writing and speaking abilities in Portuguese.
Prerequisite: V 1198 141.

V 1198 160
MASTERPIECES IN PORTUGUESE LITERATURE 3.0
 An intensive study of representative works by the most important authors of each major period in Portuguese literature.
Prerequisite: V 1198 104.

V 1198 162
MASTERPIECES IN BRAZILIAN LITERATURE 3.0
 An intensive study of representative works by the most important authors of each major period in Brazilian literature.
Prerequisite: V 1198 104.

V 1198 221
COMMERCIAL PORTUGUESE 3.0
 For students interested in the business field: technical vocabulary, styles, format and types of correspondence. Emphasis on written fluency and expression.
Prerequisite: V 1198 142 or equivalent.

V 1198 260
LUSO-BRAZILIAN CULTURE 3.0
 Portuguese and Brazilian literary masterpieces will be used as the basis for examining and understanding the distinctive cultural mores, values, and perceptions in the evolution of Portugal and Brazil.

V 1198 350
TRANSLATING I 3.0
 Techniques of translating Portuguese-English, English-Portuguese. Analysis of variations in connotation, emphasis, style, sentence structure, expression of ideas and images.

V 1198 385
COOPERATIVE EDUCATION 4.0-8.0
 This course provides an opportunity to extend academic resources beyond the campus by placing the student in meaningful learning situations with thoroughly screened and approved employers. Each chosen situation is to prepare the student to play a dynamic role in society.
Prerequisites: Junior and senior standing, 3.0 cumulative grade point average in Spanish courses, department coordinator's permission, department chairperson's permission, and approval of office of cooperative education.

K 4903 161
MAGIC REALISM IN SPANISH AMERICAN LITERATURE 3.0
 A study of magic realism as manifested in representative works of contemporary Spanish American fiction. Works to be read in English translation. Taught in English. Not for major credit.

K 4903 176
ITALIANS AND ITALIAN AMERICANS: COMPARATIVE STUDIES 3.0
 This course shows the relationship between the Italian and Italian-American experiences. It deals with aspects of religion, politics, language, work and moral codes. Comparisons are made with the experiences of other ethnic groups in America. The course is taught with an interdisciplinary approach. Taught in English. Not for major credit. Cross listed as V 1104 275 and 3 0821 176.

K 4903 180
LUSO-BRAZILIAN LITERATURE 3.0
 A study of the major writers in the Portuguese-speaking world in the 19th and 20th centuries, including Machado De Assis and Eca De Queiros. Taught in English.

Speech and Theatre

SCHOOL OF FINE AND PERFORMING ARTS
Chairperson: Gerald Lee Ratliff

For those interested in the theatre and its many facets—broadcasting, communication studies, or dance—the department offers a Bachelor of Fine Arts and a Bachelor of Arts degree.

The Bachelor of Fine Arts has three concentrations designed for those seriously considering a professional career: acting, design-technical theatre, and dance. A successful interview/audition or portfolio is required for these concentrations. Auditions are held at least three times a year. The dates can be obtained through the department or the Admissions Office.

The Bachelor of Arts degree has five concentrations: broadcasting, communications, dance, theatre, and teacher education. Each offers a broad approach and allows time for courses and interests in other fields. In order to major in these areas, a successful audition and/or interview must be completed. An interview is also required to minor in Speech and Theatre.

The department offers a rare blend of theory and practice available through specialized internships, performance ensembles, the Major Theatre Series, Telerad, Speech Labs, Studio Theatre Series, Communication Theory Organization (CTO), and the Dance Club.

Speech and Theatre Major (all B.A. and B.F.A. concentrations)

Required Courses (Basic Core) – All majors and concentrations

	Semester	Hours
1007 100 Introduction to the Theatrical Medium	3	
1506 103 Voice and Speech Improvement	3	
0603 180 Elements of the Public Media*	3	
Concentration Requirements—B.A.	23-30	
Concentration Requirements—B.F.A.	74-76	
Department Electives	0-11	

*Elements of Public Media not required of the broadcast and dance major.

Speech and Theatre Major – B.A. Concentrations Within the Program

THEATRE

Required Courses

	Semester	Hours
1007 122 Acting I	3	
1007 123 Acting II	3	
1007 150 Technical Theatre I	3	
1007 210 Theatre History: Classical to Elizabethan	3	
1007 211 Theatre History: Restoration to Modern	3	
1007 208 Play Script Interpretation	3	
1007 330 Play Direction I	3	
1007 361 Dramatic Literature	3	

1007 410 Seminar in Drama	3
1007 411 Dramatic Criticism	3
Theatre Practicum:	
Practicum in Costuming	1
Practicum in Construction	1
Practicum in Management	1
Practicum in Lighting	1
Practicum (free choice)	2

Collateral Course

Select two 3 semester hour courses from the appropriate list to be obtained from the department 6

Electives (theatre)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Free Electives 22

COMMUNICATION THEORY AND PRACTICE

Required Courses

1007 122 Acting I	3
1506 234 Fundamentals of Public Speaking	3
1506 438 Principles of Persuasion	3
1506 441 Group Discussion and Leadership	3
OR	
1506 442 Argumentation and Debate	3
1506 271 Interpersonal Communication I	3
1506 272 Interpersonal Communication II	3
1506 334 Public Communication Techniques	3
1506 374 Group Processes	3
1506 375 Non-verbal Communication	3
1506 478 Applied Communication	3

Free Electives 39

BROADCASTING

Required Courses

0603 101 Introduction to the Broadcasting Medium	3
0603 140 Writing for Broadcasting Media	3
0603 150 Audio Production	3
0603 251 Television Production I	3
0603 252 Television Production II	3
0603 350 Television Production III	3
Select Two	
0603 282 Media and Culture	3
0603 315 Political Television and Radio	3
0603 491 International Broadcasting	3
0603 460 Station Management	3

(Professional courses, as offered, satisfy this requirement)

Free Electives 36

Dance Performance

Required Courses

1008 141 Modern Dance Technique IA	2
1008 143 Modern Dance Technique IIA	2
1008 241 Modern Dance Technique IIIA	2
1008 210 History of Dance	3
1008 351 Dance Technique Ballet I	2
1008 352 Dance Technique Ballet II	2
1008 161 Choreography I	2
1008 380 Dance Production	3
Practicum: 3 Dance, 1 Theatre	4
Required major elective	2

Electives (dance)

Select 10 semester hours from the appropriate list to be obtained from the department 10

Free Electives 39

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog by the department of Curriculum and Teaching

In addition, the Speech and Theatre department has these requirements.

	Semester Hours
1506 104 Phonetic Study of Speech Sound	3
1007 122 Acting I	3
1007 150 Technical Theatre I	3
1506 160 Oral Interpretation of Literature	3
1007 201, 202, 203 Theatre Practicum	4
1506 234 Fundamentals of Public Speaking	3
1506 302 Practicum in Speech Improvement	3
1007 330 Play Direction I	3
1007 210 Theatre History: Classical to Elizabethan	3
1506 441 Group Discussion and Leadership	3
1506 407 Methods of Teaching Speech and Theatre	3

Free Electives 15

Theatre Major – B.F.A. Concentrations Within the Program

ACTING/DIRECTING

Required Courses

	Semester Hours
1007 122 Acting I	3
1007 123 Acting II	3
1007 125 Voice for the Performer I	3
1007 150 Technical Theatre I	3
1007 200, 201, 203 Theatre Practicum	8
1007 208 Play Script Interpretation	3
1007 210 Theatre History: Classical to Elizabethan	3
1007 211 Theatre History: Restoration to Modern	3
1007 222 Acting III	3
1007 223 Acting IV (Character)	3
1007 225 Voice for the Performer II	3
1007 278 Stage Makeup	3
1007 322 Acting V (Styles)	3
1007 324 The Profession of Acting (Acting VI)	3
1007 325 Voice for the Performer III	3
1007 330 Play Direction I	3
1007 362 Stage Dialects	3
1007 366 Stage Combat	3
1007 371 History of Costumes	3
1007 430 Play Direction II	3
1007 435 Dramatic Workshop	3
1008 141, 143 Modern Dance Technique Beginning IA, IIA	4

Plus 5 semester hours taken from the following:

1007 238 Musical Comedy	3
1007 365 Stage Technique and Dance	3
1007 367 Stage Technique: Mime	3
1007 391 Playwriting	3
1007 431 Play Direction III	3
1007 433 Shakespeare Workshop	3
1007 436 Dramatic Workshop II	3
1008 271 Tap Dance I	2

Free Electives 14

DANCE

Required Courses

	Semester Hours
1008 141, 142 Modern Dance Technique I A & B	4
1008 143, 144 Modern Dance Technique II A & B	4
1008 150 Technical Theatre for Dance	2
1008 205 Rhythmic Analysis for Dance	2
1008 241, 242 Modern Dance Technique III A & B	4
1008 243, 244 Modern Dance Technique IV A & B	4
1008 351, 352 Dance Technique Ballet I & II	4
1008 265 Dance Improvisation	2
1008 161, 261, 361 Choreography I, II, III	6
1008 253 Dance Technique Jazz I	2
1008 341, 342 Modern Dance Technique V A & B	4
1008 343, 344 Modern Dance Technique VI A & B	4
1008 210 History of Dance	3
1008 380 Dance Production	3
1008 435, 436 Modern Dance Technique VII A & B	4
1008 437, 438 Modern Dance Technique VIII A & B	4
or Internship(4)	
1008 450 Senior Project	3

Dance Repertory or Dance Electives 6

1007 201 Theatre Practicum: construction, costume, lighting crews <i>only</i>	1
1008 280 Dance Practicum	3

Free Electives 19

DESIGN/TECHNICAL THEATRE

Required Courses

	Semester Hours
1007 122 Acting I	3
1007 150 Technical Theatre I	3
1007 160 Drawing and Rendering I: Theatre	3
1007 208 Play Script Interpretation	3
1007 210 Theatre History: Classical to Elizabethan	3
1007 211 Theatre History: Restoration to Modern	3
1007 234 History of Decor	3
1007 245 Drafting I: Theatre	3
1007 250 Technical Theatre II	3
1007 258 Fundamentals of Stage Lighting	3
1007 278 Stage Makeup	2
1007 330 Play Direction I	3
1007 340 Theatrical Design	3
1007 345 Stage Design	3
1007 370 Costume Construction	3
1007 371 History of Costumes	3
1007 372 Introduction to Costume Design	3
1007 458 Advanced Lighting	3
OR	
1007 475 Advanced Problems in Costume Design	3
1007 403 Independent Study	
OR	
1007 490 Internship	6
1007 201/2/3 Theatre Practicum	6-8

Required Collateral Courses

1001 101 Foundations of Visual Organization I	3
1001 102 Foundations of Visual Organization II	3
Science course	3
Sociology course	3

Free Electives 12

Minor Programs

Students wishing to pursue a minor in the Speech and Theatre department, and have it listed on their transcript, must proceed as follows:

- (1) submit an application (may be obtained from the department office) to the chairperson requesting status as a Minor Program student in the department,
- (2) complete one of the Minor Program sequences,
- (3) request the Registrar (during the senior year) to certify on official records your completion of a minor program of study.

Communication Theory and Practice (Minor)

Required Courses

	Semester Hours
0603 180 Elements of the Public Media	3
1007 100 Introduction to Theatrical Medium	3
1506 103 Voice and Speech Improvement	3
1506 234 Fundamentals of Public Speaking	3
1506 271 Interpersonal Communication I	3
1506 374 Group Processes or	
1506 375 Non-verbal Communication	3

Dance (Minor)

Required Courses

1007 100 Introduction to Theatrical Medium	3
1007 201 Theatre Practicum I	1
1008 141 Modern Dance Technique Beginning I	2
1008 142 Modern Dance Technique Beginning II	2
1008 161 Choreography Beginning	2
1008 210 History of Dance	3
1008 241 Modern Dance Technique Intermediate I	2
1008 351 Dance Technique Ballet I	2

Electives (Departmental)

Select 2 semester hours from the appropriate list to be obtained from the department 2

Speech and Theatre (Minor)

Required Courses

	Semester Hours
0603 180 Elements of Public Media	3
1007 100 Introduction to Theatrical Medium	3
1007 122 Acting I OR	3
1007 150 Technical Theatre I	3
1007 201 Theatre Practicum I	1
1506 103 Voice and Speech Improvement	3
1506 160 Oral Interpretation of Literature	3
1506 234 Fundamentals of Public Speaking	3

Theatre (Minor)

Required Courses

	Semester Hours
0603 180 Elements of Public Media	3
1007 100 Introduction to Theatrical Medium	3
1007 122 Acting I	3
1007 150 Technical Theatre I	3
1007 201 Theatre Practicum	1
1007 210 Theatre History:	
Classical to Elizabethan	3
1506 103 Voice and Speech Improvement	3

Courses of Instruction

- I0603 101**
INTRODUCTION TO THE BROADCASTING MEDIUM 3.0
 The development, organization and operation of radio and television in modern society; social and cultural influence of commercial and educational broadcasting.
- I0603 105**
FUNDAMENTALS OF BROADCASTING 3.0
 The structure of the American Broadcasting Industry; broadcast production including making radio and television commercials and disc-jockey-format music programs. For non-broadcast majors only.
- I0603 140**
WRITING FOR BROADCAST MEDIA 3.0
 Writing of continuity and dramatic materials for the broadcast media, including news, commercials, and drama, and practical work in ENG reporting and TV news producing. Students must concurrently enroll in I0603 222, Television Practicum.
Prerequisite: I0603 101.
- I0603 150**
AUDIO PRODUCTION 3.0
 The production of special projects, documentaries and actualities including studio and location recording techniques, editing of audio tape, program organization and techniques of interviewing.
Prerequisite: Majors only.
- I0603 151**
PRINCIPLES OF TELEVISION PRODUCTION 3.0
 Non-dramatic broadcast program materials and production with emphasis on producing, directing, performing, and operating equipment for simple program formats. Open to non-majors.
- I0603 180**
ELEMENTS OF THE PUBLIC MEDIA 3.0
 Media study and analysis, examining mass media as social, economic and political forces in contemporary cultures.
- I0603 222**
TELEVISION PRACTICUM 1.0
 Closed circuit television production. Students participate in a minimum of 7 of the 14 weekly sessions. May be repeated.
Prerequisites: I0603 251 or I0603 252 or I0603 350.
- I0603 241**
ELECTRONIC JOURNALISM 3.0
 Practical training in gathering, writing, and producing news for radio and television; development of ethical electronic journalistic standards and practices as reflected by major social issues.
Prerequisites: I0603 240, I0603 252.
- I0603 245**
RADIO AND TELEVISION ANNOUNCING 3.0
 To develop fundamental announcing skills necessary for performance of commercials, news, and other scripted programming for radio and television. Examination, performance, and evaluation of specific skills ranging from simple commercial and public service announcements and news scripts to more complex acting and interpretative exercises.
Prerequisites: I0603 101 or I1007 122; majors only.
- I0603 251**
TELEVISION PRODUCTION I 3.0
 The tools and techniques of television production applied to news, commercial, interview and demonstration programs.
Prerequisite: I0603 101.
- I0603 252**
TELEVISION PRODUCTION II 3.0
 Group activity in the preparation and presentation of broadcast materials including plays, speeches, interviews, announcing, newscasting, music programming and advertising; the use of educational school broadcasting.
Prerequisite: I0603 251.
- I0603 282**
MEDIA AND CULTURE 3.0
 The ways in which the broadcast media affect the mass culture and through it the values and mores of society. Includes history of mass culture and the mechanisms by which minority cultures and innovations can affect mass culture.
- I0603 315**
POLITICAL TELEVISION AND RADIO 3.0
 An historical-critical introduction to radio and TV as related to political figures, institutions and issues: J. L. Lewis, F. D. R., McCarthy hearings, Nixon-Kennedy debates and political conventions.
- I0603 320**
ACTING FOR TELEVISION 3.0
 An introduction to the techniques necessary to adapt theatrical acting to television production situations, both multi-camera and single camera.
Prerequisites: I1007 122, I0603 252.
- I0603 350**
TELEVISION PRODUCTION III 3.0
 Two television productions written, produced and directed; production and direction of remote broadcasts.
Prerequisites: I0603 251, I0603 252.
- I0603 403**
INDEPENDENT STUDY 1.0-3.0
 Proposals must be submitted for departmental approval prior to registration for the course.
- I0603 450**
ELECTRONIC FIELD PRODUCTION AND POST-PRODUCTION 3.0
 Methods of electronic field production and post-production, including operation of color E.F.P. equipment and 1/4 inch color video editing equipment, planning and development of shooting script. Production of programs.
Prerequisites: I0603 350 and permission of instructor.
- I0603 460**
STATION MANAGEMENT 3.0
 Economic support patterns; evolution of broadcast programming; determining community needs; on-air operations; station promotion and advertising; legal and ethical questions relating to broadcasting.
Prerequisites: I0603 251, I0603 252.
- I0603 470**
SPECIAL STUDIES IN BROADCASTING 3.0
 The theory and actual current practice in the business, managerial and/or legal aspects of the broadcasting industry as provided by practicing professionals in the field. This course may be repeated for credit.
Prerequisites: I0603 252, instructor's permission, majors only.
- I0603 490**
INTERNSHIP: BROADCASTING 4.0-16.0
 Advanced students may pursue a portion of their major work under the supervision of a professional or a contract company. Departmental eligibility and approval required prior to registration.
Prerequisite: Permission of instructor.

- I 0603 491
INTERNATIONAL BROADCASTING 3.0
Major broadcasting systems including those of England, Canada, Japan, Russia, Germany, France and Italy. Voice of America, Radio Free Europe, Missionary Radio, group listening and viewing systems.
Prerequisite: I 0603 101.
- I 0603 495
ETHICS AND LAW OF MASS COMMUNICATION 3.0
A survey and analysis of major legal and ethical issues in broadcasting and mass communication. Open to all.
- I 1007 100
INTRODUCTION TO THEATRICAL MEDIUM 3.0
All forms of theatrical literature and productions including drama, ballet, mime, opera, circus, musical comedy and mass media.
- I 1007 122
ACTING I 3.0
Basic techniques of theatrical communication involving one's self completely; doing and experiencing inwardly; deepening the personal involvement and significance of actions; improvisation and exercises for perception, self-awareness and justification.
- I 1007 123
ACTING II 3.0
Extension of the actor's self into characterization; learning to physicalize (or externalize) the psychological elements and characters so that they are projected to an audience. Script analysis, in which the student develops the discipline of using clues in the script to fulfill the author's intentions. Work on scenes, applying the foregoing techniques.
Prerequisite: I 1007 122.
- I 1007 125
VOICE FOR THE PERFORMER I 3.0
The voice skills necessary for the actor. Intensive work directed toward classic and modern styles in stage diction.
Prerequisites: I 1506 103, instructor's permission.
- I 1007 150
TECHNICAL THEATRE I 3.0
The production concept from the designer's approach through a correlation of related arts to the final production; emphasis on correlation of scenic and lighting designs.
- I 1007 160
DRAWING AND RENDERING I: THEATRE 3.0
Drafting techniques for theatrical designs: basic projective techniques, color harmony and perspective. Preparation for Technical Theatre II or theatrical design for students without prior experience.
Prerequisite: I 1007 150.
- I 1007 201
THEATRE PRACTICUM I 1.0
On or off stage experience in departmental productions. May be repeated.
- I 1007 202
THEATRE PRACTICUM II 1.0
Continuation of 1007 201. May be repeated.
- I 1007 203
THEATRE PRACTICUM III 1.0
Continuation of 1007 202. May be repeated.
- I 1007 208
PLAY SCRIPT INTERPRETATION 3.0
An evaluation of the playscript in terms of the literary, technical, and production elements essential to mounting the script for performance; a consideration of both the fictional and the functional elements of playscripts.
- I 1007 210
THEATRE HISTORY: CLASSICAL TO ELIZABETHAN 3.0
The development of the theatre from the classical Greek through the Elizabethan period; attention to plays, playwrights, theater architecture, scenery, costuming, styles of acting and presentations. Oral reports, lectures and demonstrations.
- I 1007 211
THEATRE HISTORY: RESTORATION TO MODERN 3.0
The development of the theatre from the restoration through the modern period; attention to plays, playwrights, theater architecture, scenery, costuming, styles of acting and presentations of the period. Oral reports, lectures and demonstrations.
- I 1007 220
VOCAL PERFORMANCE SKILLS WORKSHOP 1.0-3.0
Freeing the performer's natural voice, and developing vocal skills to mold and shape characterization. Specific workshop exercises in articulation, projection, vocal variety and sensory awareness.
Prerequisite: I 1007 122.
- I 1007 222
ACTING III 3.0
Strengthening the actor's controls and extending his boundaries. More challenging roles; period plays and the problem of style.
Prerequisites: I 1007 123 or instructor's permission.
- I 1007 223
ACTING IV (CHARACTER) 3.0
Extending the range of characterization by modifying and controlling physical and vocal characteristics, and by studying how clothing, manners and modes of other periods affect behavior. Exercises in animal and object controls and in using adjustments; application in scenes.
Prerequisite: I 1007 222.
- I 1007 225
VOICE FOR THE PERFORMER II 3.0
Intermediate study in the voice skills necessary for performance in a professional setting. Advanced work in voice production and vocal characterization directed toward performance styles and stage presentation.
- I 1007 234
HISTORY OF DECOR 3.0
The major architectural and decorative periods of the world and their influences and role in the theatre as applied to the designer.
- I 1007 238
MUSICAL COMEDY 3.0
Production styles, techniques and dramatic conventions used in the musical theatre in relation to direction, music, dance, and design. The student will be expected to study all areas of the musical.
Prerequisites: I 1007 150, 330.
- I 1007 245
DRAFTING I: THEATRE 3.0
Techniques in theatrical drafting that explore the mechanics of drafting through the solution of practical problems in floor planning, front and rear elevations; the use of different building techniques, materials and structures.
Prerequisite: I 1007 150.
- I 1007 246
DRAFTING II: THEATRE 3.0
Advanced study in building, rigging, and stress problems related to theatre design and production. Advanced drafting techniques for theatrical designs.
Prerequisites: I 1007 150, 245.

- I 1007 250
TECHNICAL THEATRE II 3.0
The methods of realizing theatrical design including construction, scene painting and the use of theatrical and plant lighting.
Prerequisite: I 1007 150 or instructor's permission.
- I 1007 252
THEATRICAL DESIGN 3.0
Visual design in the theatrical medium; execution of actual designs stressing originality within given stylistic concepts.
Prerequisite: I 1007 150, 160 or instructor's permission.
- I 1007 258
FUNDAMENTALS OF STAGE LIGHTING 3.0
The functions of light on stage; the use of lighting equipment. Laboratory work done in the Memorial Auditorium.
Prerequisites: I 1007 150, 160.
- I 1007 260
DRAWING AND RENDERING II: THEATRE 3.0
Advanced drawing and rendering for theatrical stage design. Includes color work and work with dye and ink.
Prerequisite: I 1007 160.
- I 1007 278
BEGINNING STAGE MAKEUP 3.0
Makeup materials and their uses; creating corrective and character makeup, mustaches and beards for a cast. Research or creative experience to compile a practical resource file.
- I 1007 322
ACTING V (STYLES) 3.0
Emphasis upon movement, decorum, costuming, and the theatrical environment of each major period of theatre history. Scene study for each period of theatre history. Special lectures by costuming and movement specialists.
Prerequisite: I 1007 223.
- I 1007 324
THE PROFESSION OF ACTING (ACTING VI) 3.0
Consideration of the artistic and commercial demands of the professional theatre and preparation to meet those demands.
Prerequisite: Junior or senior theatre major.
- I 1007 325
VOICE FOR THE PERFORMER III 3.0
Advanced study in the voice skills necessary for performance in a professional setting. Intensive work in voice production and vocal development necessary to develop selected performance styles and techniques.
- I 1007 330
PLAY DIRECTION I 3.0
Principles of direction, selection and casting; exercises in composition and movement; scenes directed for class criticism; preparation of prompt book.
Prerequisites: I 1007 122, 150.
- I 1007 345
STAGE DESIGN 3.0
Stage design for the theatre. Students design scenery for realistic and non-realistic drama styles receiving experience in various styles of rendering, model making, artistic and technical principles of design.
Prerequisites: I 1007 242, 340.
- I 1007 354
REPAIR AND MAINTENANCE OF THEATRICAL EQUIPMENT 3.0
Practical study in the repair and maintenance of theatre equipment, including machines, lights and tools.
Prerequisite: I 1007 150.
- I 1007 361
DRAMATIC LITERATURE 3.0
Dramatic literature from the classical to the modern in terms of genre, theme, and performance potential; dramatic literature as it reflects its time.
- I 1007 362
STAGE DIALECTS 3.0
Lecture and laboratory demonstration on sound substitutions, rhythms, and inflectional patterns used in creating effective stage dialects. Performance in standard British, Cockney, Irish, Scottish, French, Italian, German, and Spanish dialects.
- I 1007 366
STAGE TECHNIQUE COMBAT 3.0
Stage use of sword-play, hand-to-hand combat and combat choreography with broadsword, epee, cudgel and staff among others (generally offered as one of three modules with I 1007 365 and 367).
Prerequisite: I 1007 122.
- I 1007 367
STAGE TECHNIQUE: MIME 3.0
Fundamentals of the art of classic mime including basic body controls and movements (generally offered as one of three modules with I 1007 365 and 366).
Prerequisite: I 1007 122.
- I 1007 370
COSTUME CONSTRUCTION 3.0
Constructing costumes and accessories for the stage; techniques of cutting and sewing clothing; selection of fabrics in terms of weight, texture, color and drape. Lecture and workshop.
- I 1007 371
HISTORY OF COSTUMES 3.0
The evolution of costume and the development of tailoring; social, economic and political influences on silhouette and ornamentation. For advanced students of costume design and construction.
Prerequisite: I 1007 372.
- I 1007 372
INTRODUCTION TO COSTUME DESIGN 3.0
An exploration of the basic principles of costume design including script and character analysis and focusing on the process which translates ideas to rendering to finished costume. Design projects and lab hours required.
Prerequisite: I 1007 371.
- I 1007 381
THEATRE ADMINISTRATION AND AUDIENCE DEVELOPMENT 3.0
Initiation, development and continuing operation of the theatrical enterprise including methods of finance, budget and contract and methods of audience research and development.
Prerequisites: I 1007 100, 122, 150.
- I 1007 391
PLAYWRITING 3.0
The creation of an original script suitable for production. The cause to effect play will be investigated as well as newer trends in theatre. Investigation of marketing possibilities and the preparation of scripts for submission. Students should have a background in the technique and artistic aspects of the theatre.
- I 1007 403
INDEPENDENT STUDY 1.0-3.0
Proposals must be submitted for departmental approval prior to registration for the course.

- I 1007 407
INTERNSHIP: DESIGN/TECHNICAL THEATRE 4.0-12.0
 Practical experience as a member of a professional, semi-professional or educational theatre on or off campus; work as a technician or as an assistant to the designer or producer.
Prerequisite: Departmental approval.
- I 1007 409
SUMMER THEATRE: PRODUCTION/PERFORMANCE 4.0-12.0
 Practical experience as a member of a professional, semi-professional, or educational theatre on or off campus. The student works as an actor or as an assistant to the director, designer or producer.
Prerequisite: Department approval.
- I 1007 410
SEMINAR IN DRAMA 3.0
 Dramatic theory as it relates to production and performance. A series of research projects selected by the instructor to guide students in applying contemporary principles of play production to styles of performance; comprehensive and intensive study of playscripts and dramatic theories as they find expression in performance.
Prerequisite: I 1007 361.
- I 1007 411
DRAMATIC CRITICISM 3.0
 Dramatic principles of theme, content, and characterization as they relate to production and performance; evaluation and analysis of the basic ingredients of dramatic criticism as related to the critic, the director, the scenic artist and the performer.
Prerequisite: I 1007 361.
- I 1007 430
PLAY DIRECTION II 3.0
 Advanced play direction with emphasis on the director's analysis of the script and working with performers. Each participant will direct a variety of scenes and a one act play.
Prerequisites: I 1007 123, 330.
- I 1007 431
PLAY DIRECTION III 3.0
 Exploration of significant styles of production. Each participant will direct scenes in various period styles. A final stylistic project performed for an audience.
Prerequisites: I 1007 222, 430.
- I 1007 433
SHAKESPEARE WORKSHOP 3.0
 Analysis and performance of scenes from Shakespearean histories, comedies, and tragedies.
Prerequisites: I 1007 223, 330.
- I 1007 435
DRAMATIC WORKSHOP I 3.0
 An advanced course combining students as actors or directors engaged in research and performance of classical and contemporary styles of theatre in a works-in-progress atmosphere. Material will be drawn from the full spectrum of theatre.
Prerequisite: Two courses in directing and/or acting.
- I 1007 436
DRAMATIC WORKSHOP II 3.0
 A continuation of dramatic workshop providing advanced research, exploration and performance for acting-directing experimentation with various modes such as readers' theatre, story theatre and environmental theatre. Problems of adaptation of plays of one period into other periods and of non-theatrical material into a theatrical form.
Prerequisite: I 1007 435.
- I 1007 440
SENIOR PROJECT: DESIGN/TECHNICAL THEATRE 3.0
 Topics for investigation in the area of design and technical theatre.
Prerequisites: Majors only; instructor's permission.
- I 1007 442
THEATRICAL MODEL MAKING 3.0
 Three-dimensional design in theatrical model making. Exploration of the creative design process in working with construction models executed in paper, cardboard and clay.
Prerequisites: I 1007 245, 252.
- I 1007 445
ADVANCED STAGE DESIGN 3.0
 Advanced scene design skills with particular attention to design in non-proscenium production.
Prerequisites: I 1007 150, 242.
- I 1007 450
THEATRICAL SOUND 3.0
 Theatrical uses of sound in production approaches to theatre. Primary focus on the role sound plays in enhancing theatrical design and production.
Prerequisites: Majors only; instructor's permission.
- I 1007 458
ADVANCED LIGHTING 3.0
 Advanced lighting skills in theatre and the related areas of dance, opera and the musical comedy.
Prerequisites: I 1007 345, I 1007 455.
- I 1007 470
ADVANCED COSTUME CONSTRUCTION 3.0
 An advanced study of flat patterning, draping, and period cut used in the development of specific patterns for stage costumes. Construction projects and lab hours required.
Prerequisite: I 1007 370.
- I 1007 490
INTERNSHIP IN THEATRE 4.0
 Upper-class undergraduate students may pursue a major portion of a semester work under the supervision of an experienced professional practitioner as an assistant in an active, successful theater, dance, speech or media center program. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration. Credit by arrangement.
Prerequisite: Instructor's permission.
- I 1008 101
BASIC MOVEMENT SKILLS 2.0
 Develops capacity for natural, coordinated movement. The student discovers basic locomotor and axial movements.
- I 1008 105
DANCE APPRECIATION 3.0
 Designed to inform the student about dance as a performing art form. Focus is on dance performance. The course includes: lectures, discussion, selected readings, viewing films, video tapes, and live performances as well as some experimental movement sessions.
- I 1008 141
MODERN DANCE TECHNIQUE I-A 2.0
 Introduction to modern dance, techniques and basic elements of dance.
- I 1008 142
MODERN DANCE TECHNIQUE I-B 2.0
 To be taken in conjunction with I 1008 141.
Prerequisite: I 1008 141.
Corequisite: I 1008 141.
- I 1008 143
MODERN DANCE TECHNIQUE II-A 2.0
 Application and extensive practice of principles learned in I 1008 141, 142.
Prerequisites: I 1008 141, instructor's permission.

I 1008 144	2.0	I 1008 254	2.0
MODERN DANCE TECHNIQUE II-B		DANCE TECHNIQUE JAZZ II	
To be taken in conjunction with I 1008 143.		A continuation of I 1008 253.	
<i>Prerequisites: I 1008 142; instructor's permission.</i>		<i>Prerequisite: I 1008 253.</i>	
I 1008 150	2.0	I 1008 255	2.0
PRODUCTION ELEMENTS FOR DANCE-I		JAZZ I (EXTENDED)	
Introduction to technical productions related to dance. Survey of terminology, application of production principles, and aesthetic potential for production.		Designed for the student who has completed I 1008 253 but needs more skill development before proceeding to I 1008 254	
		<i>Prerequisites: I 1008 253, instructor's permission.</i>	
I 1008 151	2.0	I 1008 261	2.0
PRODUCTION ELEMENTS FOR DANCE-II		CHOREOGRAPHY II	
Advanced study in technical production of dance. Basics of sound and costume techniques and specific application to dance.		Dance choreography with emphasis on small group works and solos, including form and structure.	
<i>Prerequisite: I 1008 150.</i>		<i>Prerequisite: I 1008 161.</i>	
I 1008 161	2.0	I 1008 265	2.0
CHOREOGRAPHY I		DANCE IMPROVISATION I	
Elements and methods of dance composition.		Basic skills and problems in dance improvisation. May be repeated for credit.	
I 1008 200	0.0	I 1008 266	2.0
DANCE TECHNIQUE: PROFESSIONAL STUDIO EXPERIENCE		DANCE IMPROVISATION II	
Professional studio experience with recognized professional artists. May be repeated.		A continuation of I 1008 265.	
<i>Prerequisite: Departmental permission.</i>		<i>Prerequisite: I 1008 265.</i>	
I 1008 201	2.0	I 1008 271	2.0
ADVANCED MOVEMENT SKILLS		TAP DANCE I	
Intensive study of complex movement patterns.		Basic introduction to tap dance, including movement vocabulary, ability to execute rhythmic foot patterns, and basic tap patterns in performance.	
I 1008 205	2.0	I 1008 280	1.0
RHYTHMIC ANALYSIS FOR DANCE		DANCE PRACTICUM	
All basic rhythmic structures (basic note values, meter, etc.) covered and immediately applied to movement; games, notational assignments, and choreographic studies used to create understanding of the inherent rhythm within all basic dance movement.		Practical work in dance production. Dancing, assisting, directing, accompanying, working on technical or house crew. Credit only for working through the entire production period. Work must be completed and report filed prior to registration in the course. May be taken more than once.	
<i>Prerequisites: I 1008 141, majors only.</i>		<i>Prerequisite: Instructor's permission.</i>	
I 1008 210	3.0	I 1008 300	1.0
HISTORY OF DANCE		DANCE TECHNIQUE: SPECIAL STUDIES	
Dance as it has developed from primitive religious and ritualistic movement to its contemporary place in society.		Extended and in-depth work in specific areas of dance technique. May be repeated. Intended for professional study of dance technique.	
I 1008 241	2.0	I 1008 310	3.0
MODERN DANCE TECHNIQUE III-A		MOVEMENT ANALYSIS	
A wide range of movement techniques and dance styles, group improvisations as approaches to dance composition. In depth study and application of dance vocabulary, movement patterns, and development of style and performance focus.		Basic body mechanics and dance movements; emphasis on freeing the body from tension, and on muscle awareness, postural alignment, and relaxation.	
<i>Prerequisite: I 1008 142.</i>		<i>Prerequisite: 4 semester hours of modern dance or instructor's permission required.</i>	
I 1008 242	2.0	I 1008 325	2.0
MODERN DANCE TECHNIQUE III-B		METHODS AND MATERIALS FOR TEACHING DANCE	
To be taken in conjunction with I 1008 241.		Theory, methods and materials for the teaching of dance and movement. Unit lesson planning and curriculum development.	
I 1008 243	2.0	<i>Prerequisites: I 1008 161, 242.</i>	
MODERN DANCE TECHNIQUE IV-A		I 1008 341	2.0
To be taken in conjunction with I 1008 241.		MODERN DANCE TECHNIQUE V-A	
I 1008 244	2.0	Further study and application of basic movement vocabulary, complex movement patterns, and style and performance focus.	
MODERN DANCE TECHNIQUE IV-B		<i>Prerequisite: 6 semester hours of modern dance. By audition only.</i>	
To be taken in conjunction with I 1008 243.		I 1008 342	2.0
I 1008 253	2.0	MODERN DANCE TECHNIQUE V-B	
DANCE TECHNIQUE JAZZ I		To be taken in conjunction with I 1008 341.	
An introduction to jazz technique; emphasis on style and the rhythmic aspects of jazz as a performing art.			
<i>Prerequisite: 2 semester hours of modern dance.</i>			

I 1008 343	MODERN DANCE TECHNIQUE VI-A	2.0	I 1008 435	SPECIALIZED DANCE ACTIVITY	1.0-3.0
Continuation of I 1008 341.			Credit is given for supervision in specialized dance activity. Consent of department chairperson is required. Credit by arrangement.		
<i>Prerequisite: I 1008 341.</i>					
I 1008 344	MODERN DANCE TECHNIQUE VI-B	2.0	I 1008 436	MODERN DANCE TECHNIQUE VII-A	2.0
To be taken in conjunction with Modern Dance Technique VI A. Modern dance technique at an intermediate and advanced level.			Modern dance technique at an advanced level.		
<i>Prerequisite: I 1008 242.</i>			<i>Prerequisite: I 1008 344.</i>		
I 1008 345	DANCE TECHNIQUE: ETHNIC	2.0	I 1008 437	MODERN DANCE TECHNIQUE VII-B	2.0
The distinctive techniques customarily related to specific racial and cultural groups. The groups studies will vary from semester to semester. May be taken more than once.			To be taken in conjunction with Modern Dance Technique VII-A. Modern dance at the advanced level of professional preparation for performance.		
			<i>Prerequisite: I 1008 344.</i>		
I 1008 351	DANCE TECHNIQUE BALLET I	2.0	I 1008 438	MODERN DANCE TECHNIQUE VIII-A	2.0
An introduction to ballet technique.			Modern dance technique at the advanced level.		
<i>Prerequisite: 4 semester hours of modern dance or instructor's permission.</i>			<i>Prerequisite: I 1008 344.</i>		
I 1008 352	DANCE TECHNIQUE BALLET II	2.0	I 1008 439	MODERN DANCE TECHNIQUE VIII-B	2.0
A continuation of I 1008 351.			Modern dance technique at the advanced, professional level of performance study. Intended for those pursuing professional performance careers. To be taken in conjunction with I 1008 437.		
<i>Prerequisites: I 1008 351; instructor's permission.</i>			<i>Prerequisite: I 1008 344.</i>		
I 1008 353	DANCE TECHNIQUE BALLET III	2.0	I 1008 450	SENIOR PROJECT	3.0
Advanced technique forms with presentations by authorities from various ballet schools.			Individual creative or research project under supervision of dance faculty in senior year. By arrangement.		
<i>Prerequisites: I 1008 352; instructor's permission.</i>					
I 1008 354	BALLET I (EXTENDED)	2.0	I 1008 461	CHOREOGRAPHY IV	2.0
Designed for the student who has completed I 1008 351 but needs more skill development before proceeding to I 1008 352.			Advanced choreography for professional study.		
<i>Prerequisites: I 1008 351, instructor's permission.</i>			<i>Prerequisite: I 1008 344.</i>		
I 1008 355	BALLET II (EXTENDED)	2.0	I 1008 473	DANCE THERAPY	2.0
Designed for the student who has completed I 1008 352 but needs more skill development before proceeding to I 1008 353.			Basic theoretical introduction to dance as therapy.		
<i>Prerequisite: I 1008 352.</i>			<i>Prerequisite: Instructor's permission.</i>		
I 1008 361	CHOREOGRAPHY III	2.0	I 1008 485	DANCE REPERTORY	3.0-7.0
Exploring and applying performance concepts and techniques used in choreographing for groups of varying sizes.			Dancing, choreographing, or providing technical assistance for a repertory company. Normally involves a touring company both within and outside the state for an extended period of time. More than one semester of work may be involved. By audition only.		
<i>Prerequisite: I 1008 261.</i>					
I 1008 371	TAP DANCE II	2.0	I 1099 470	EXTERNSHIP IN PERFORMING ARTS MANAGEMENT	1.0-15.0
Intermediate tap dance, including advanced movement combinations, ability to execute complex foot patterns and combinations, and complicated tap patterns in performance.			Management of an arts organization arranged in cooperation with the major department and umbrella organizations. Credit to be arranged.		
<i>Prerequisite: I 1008 271, instructor's permission.</i>			<i>Prerequisites: Introduction to Performing Arts Management I, II, two semesters of internship, permission of sponsor(s) and major department.</i>		
I 1008 380	DANCE PRODUCTION	2.0-3.0	I 1506 050	SPEECH IMPROVEMENT: FOREIGN SPEECH PATTERNS	3.0
Responsibilities of the dancer, choreographer, director, musician and technician in dance production. Practical group experience.			Voice and speech problems; comparative phonetic analysis of other languages, noting intonation and inflectional differences; evaluation of progressive speaking and reading skills. For students requiring intensive training in spoken English. Credits not applicable toward graduation. Admission by department following evaluation testing.		
<i>Prerequisites: I 1008 161, course in similar field.</i>			<i>Prerequisite: Department evaluation required.</i>		
I 1008 403	INDEPENDENT STUDY	1.0-3.0			
Proposals must be submitted for departmental approval prior to registration for the course.					

- I 1506 101**
FUNDAMENTALS OF SPEECH II. COMMUNICATIONS REQUIREMENT 3.0
 Practical opportunities in a variety of speaking situations. Emphasis on skills, development of poise and confidence and effective communication. Distracting elements in voice or articulation considered, with additional work as needed in the Speech Laboratory. Satisfies the communication requirement.
- I 1506 103**
VOICE AND SPEECH IMPROVEMENT 3.0
 Development of voice and speech techniques and elimination of faults; procedures for improving voice and speech patterns. For speech and theatre majors and minors, others by consent of the instructor.
- I 1506 104**
PHONETIC STUDY OF SPEECH SOUND 3.0
 The manner and place of articulation heard in American English; use of international phonetic alphabet to transcribe speech both prescriptively and descriptively from live and recorded voices; intonation and stress patterns of spoken English.
- I 1506 160**
ORAL INTERPRETATION OF LITERATURE 3.0
 Classroom performances of oral interpretation of various forms of literature followed by informal critiques and the development of a repertory.
- I 1506 230**
LISTENING 3.0
 The development of critical, discriminative, appreciative and empathic listening skills; emphasis will be on listening theory/concept exploration, listening skill building, and experiential learning through theory application.
- I 1506 234**
FUNDAMENTALS OF PUBLIC SPEAKING 3.0
 Preparing and delivery of effective, informative, persuasive and entertaining speeches; addressing the class; entering into formal critiques and moderating one program.
- I 1506 271**
INTERPERSONAL COMMUNICATION I 3.0
 Basic theory of interpersonal communication and its practical applications in one-to-one and small group communication situations; personal communication patterns as they affect self-perception and the perception of others.
- I 1506 272**
INTERPERSONAL COMMUNICATION II 3.0
 Current literature in the field of interpersonal communication and the relationship of the theory to communication experiences both in and out of class.
Prerequisite: I 1506 271.
- I 1506 302**
PRACTICUM IN SPEECH IMPROVEMENT 3.0
 Evaluation, etiology and remedial techniques for minor voice and diction problems common to a general school population; self motivating materials for junior high and high school. For all Speech and Theatre majors planning to teach. Three class hours, one hour for observation and practice.
Prerequisites: I 1506 103, I 1506 104, I 1506 160, I 1506 234.
- I 1506 334**
PUBLIC COMMUNICATION TECHNIQUES 3.0
 Contemporary styles of speaking relating to current issues and events; primary focus on television, radio styles of announcing; work to develop flexibility in using the various styles.
- I 1506 363**
READER'S THEATRE 3.0
 The close union of interpretation of literature and theatre; adaptation and editing of the various genres of literature; participation in public performances of reader's theatre.
Prerequisites: I 1506 160, I 1007 122.
- I 1506 364**
ADVANCED READER'S THEATRE 3.0
 Principles of reader's theatre for public performance; intensive application of performance technique related to the interpretation of prose, poetry and the novel.
Prerequisite: I 1506 363.
- I 1506 374**
GROUP PROCESSES 3.0
 The affective domain of a group's function; variable like cohesiveness, blocking behavior, withdrawal, etc., as related to the development and maintenance of productive interaction.
Prerequisite: I 1506 271.
- I 1506 375**
NON-VERBAL COMMUNICATION 3.0
 Non-linguistic system and the communication experience. Effects of non-verbal aspects (physical behavior, spatial relationships, context, environment, etc.) upon the sending and receiving of verbal messages.
Prerequisites: I 1007 122, I 1506 374.
- I 1506 388**
SEMINAR IN PUBLIC RELATIONS 3.0
 Provide background theory and practical experience in public relations. Writing forms and styles, project planning, and campaign strategy as they relate to public relations are emphasized.
Prerequisite: I 1506 271.
- I 1506 403**
INDEPENDENT STUDY 1.0-3.0
 The proposals must be submitted for departmental approval prior to registration for the course.
- I 1506 407**
METHODS OF TEACHING SPEECH AND THEATRE 3.0
 Speech education at each grade level; approaches, problems, materials, textbooks and techniques; trends in instruction; integration of speech with other fields.
Prerequisites: Instructor's permission, majors only.
- I 1506 435**
SPEECH ARTS ACTIVITY 1.0-3.0
 Credit is given for supervised speech arts activity. Consent of department chairperson required. Credit by arrangement.
- I 1506 438**
PRINCIPALS OF PERSUASION 3.0
 Theory and application of persuasive principles in various fields of society with focus on communication strategies for awareness, understanding, evaluation, and change of social forces in media, education, government, business, religion, politics, relationships, and industry.
Prerequisite: I 1506 234.
- I 1506 441**
GROUP DISCUSSION AND LEADERSHIP 3.0
 Principles of small group discussion with a task-problem solving orientation. Leading and participating in private and public discussions; introduction to parliamentary procedure.

I 1506 442
ARGUMENTATION AND DEBATE 3.0
 Principles of argumentation; characteristics of propositions, definitions of terms, logical organization, evidence, research and oral techniques, structure of tournament debating. Practice in argumentation and debate of current significant issues.

I 1506 478
APPLIED COMMUNICATION 3.0
 Identification of practical applications and implications for the theories of human communication is explored with specific focus on communication careers through interviewing techniques, personal applications and implications, and career panels with communication professionals. A pragmatic approach allows a synthesis of learned communication theory and applied communication practice.
Prerequisites: Senior majors; instructor's permission.

I 1506 490
INTERNSHIP IN SPEECH COMMUNICATIONS 4.0
 Upper-class undergraduate students may pursue a major portion of a semester work under the supervision of an experienced professional practitioner as an assistant in active, successful speech activity. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration.
Prerequisite: Instructor's permission.

OTHER ACADEMIC PROGRAMS

College Honors Program

Director: Rhoda K. Unger

The College Honors Program provides a core of academic excellence, stimulates a sense of community, and establishes a lively and creative force in support of the academic and intellectual interests of outstanding students. Participants share a core curriculum of seven interdisciplinary seminars which fulfill various components of the undergraduate general education requirements. Honors sections of regular courses will also be available to participants as well as to selected students who are not participants in the college honors program itself.

Admission to the College Honors Program as a freshman requires that the applicant meet two of the following criteria:

1. Rank in the top 10% of high school class.
2. A score of at least 600 on either the verbal or math SAT.
3. A combined SAT score of at least 1150.
4. An unusual ability in the creative arts or exceptional leadership or other extraordinary accomplishment.

Students interested in applying to the program must fill out an application form that includes a brief essay. Selected candidates will be interviewed by a member of the Honors Program Advisory Board as part of the admission process. The number of students in the program is limited to sixty per entering class. Completion of the program's requirements becomes a part of the student's official transcript and is noted on the student's diploma. It is expected that students in the College Honors Program will choose to be involved in existing honors programs within their major disciplines. Courses in the junior year are designed to facilitate this transition.

Required Courses

Freshman Year

	Semester Hours
Honors Seminar in Great Books and Ideas (one year)	6
Focus on the significant masterworks and intellectual foundations of western civilization. Original source materials will be read.	

Honors Seminar in Twentieth Century Civilization (one year)	6
Focus on important political, economic, and technological events of the twentieth century, and their implications for the individual and the society.	

Sophomore Year

Honors Seminar in Science and Scientific Method (one year)	8
Focus on the role of science and the principles of empiricism. Topics include the history of scientific thought, modeling, deduction, and the design of experiments in various scientific disciplines.	

Honors Seminar on the Aesthetic Foundations of Civilization	3
Focus on the creative processes in both western and non-western culture in the areas of art, dance, music, and creative writing.	

Honors Seminar on Social Analysis	3
Comparison of various social sciences in terms of theory, methodology, and forms of analysis.	

Junior Year

Seminar in Research Methods	3
Preparation for conducting original research in the student's major. The methodology of various disciplines is discussed in terms of their strengths and weaknesses. Students will have an opportunity to evaluate preferred research strategies before actually conducting the work.	

Seminar in Ways of Knowing	3
Comparisons of methods of validating knowledge in various disciplines. Assumptions about the bases of knowledge in the humanities, social sciences, and physical sciences will be critically examined.	

General Humanities

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Coordinator: Timothy T. Renner

Humanistic studies are concerned with the critical and expressive awareness of the meaning of human experience, and the many ways in which mankind has seen itself in the past and sees itself today. Among social, scientific, philosophical and religious studies, in literary and artistic expression, the humanities seek the common awareness of the human problem and the varying attempts at its solution.

The major in General Humanities is recommended for students who have a broad interest in liberal arts. The major begins with two introductory courses, General Humanities I and II, which together offer an overview of important themes, periods, subject areas, and modes of inquiry within the humanities. Next, the student takes a series of selected courses in five of the traditional humanistic disciplines. At this stage, the student, in consultation with a faculty advisor, identifies a special topic which will be the subject of the senior thesis or other project and plans a portion of the courses taken within the various disciplines, so as to include four, which make up a concentration centering around the topic of interest. Finally, the student prepares a senior thesis or other project.

Required Courses

	Semester Hours
4903 201, 202 General Humanities I, II	6
4903 499 Senior Humanities Seminar (to accompany writing of senior thesis)	4

Electives (Major)

Students will take a total of 24 semester hours in selected courses in the five areas listed (detailed lists of appropriate courses within each area may be obtained from the faculty advisor). Four courses out of the total eight will be carefully chosen so as to provide the student with background on a humanistic topic which is interdisciplinary in nature and which will be the subject of the senior essay.

- a. History: One course from two of the following groups:
 - (1) Earlier Western
 - (2) Later Western
 - (3) Non-Western

total 6
- b. Philosophy and Religious Studies: One course from each group:
 - (1) Philosophy
 - (2) Religious Studies

total 6
- c. Literature: One course from each group:
 - (1) Comparative Literature
 - (2) National Literature

total 6
- d. Art History: One course 3
- e. Music History: One course 3
- Grand total: 34**

Courses of Instruction

K 4903 201
GENERAL HUMANITIES I (to 1400) 3.0
 A broadly historical introduction to important themes and topics in the humanities as seen through literature, philosophy, and the arts from the ancient world to the Middle Ages.

K 4903 202
GENERAL HUMANITIES II (from 1400) 3.0
 A broadly historical introduction to important themes and topics in the humanities as seen through literature, philosophy, and the arts from Renaissance to the present.

K 4903 480
INDEPENDENT STUDY IN GENERAL HUMANITIES 1.0-4.0
 Directed independent study and research in general humanities. May be elected in lieu of K 4903 499, senior humanities seminar, in years when the seminar is not being offered.
Prerequisite: Permission of the program coordinator.

K 4903 499
SENIOR HUMANITIES SEMINAR 4.0
 A seminar for majors. The student will develop, in a senior thesis or other creative project, an interdisciplinary approach to an idea or problem arising from the concentration.
Prerequisite: Senior standing as a General Humanities major.

Legal Studies

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Director: Marilyn R. Frankenthaler

Legal Studies is unified in terms of the broad discipline and also overall ultimate career objectives. The Center for Legal Studies provides a cohesive structure which preserves the interdisciplinary nature of the legal field. The thrust of the Center is threefold:

- To unify the Paralegal and Pre-Law Programs into a single resource unit for students interested in the legal field,
- To provide appropriate counseling and information for students,
- To represent Montclair State College's leadership role in undergraduate legal studies in relation to law schools, the organized bar, and the general public through activities such as conferences, research and consultation projects.

In the essential process of advisement, Dr. Carl Gottschall serves as Mathematics, Computer Science and Patent Coordinator. Dr. Harry Balfe, the College Pre-Law Advisor, is available to provide information to students regarding law school admission. Additionally, advisors representing every department at the College, counsel Pre-Law students regarding the best course of study within any major for students planning a career in law.

The Center for Legal Studies affords Montclair State College students the dual possibilities of an applied career in law as a paralegal or preparation for an ultimate career as an attorney. Both the Paralegal and Pre-Law Programs are minors which may be combined with many diverse majors on campus.

PARALEGAL STUDIES PROGRAM (24 semester hours)

The Paralegal Studies Minor offers the student a balanced and varied background in the legal fundamentals, appropriate skills, and practical field work experience necessary for work as a legal assistant. Paralegal Studies develops intellectual and analytical skills, trains students for direct employment opportunities in the legal assistant field, and provides supplemental career possibilities in combination with a student's major.

The Montclair State College Paralegal Studies Program is the first and only program at a four-year college in the State of New Jersey to receive American Bar Association approval.

There are three possible courses of study within the Montclair State College Paralegal Studies Program: General Law Practice, a Hispanic Specialization for bilingual students, and a Patent, Trademark and Copyright Law Specialization.

General Law Practice

Course of Study	Semester Hours
1402 220 Introduction to Paralegalism	3
1402 230 Fundamentals of Legal Research	3
1402 221 Civil Litigation	3
Choice of 2 of the following	6
1402 301 Domestic Relations	3
1402 302 Real Estate Law	3
1402 303 Wills, Trusts, and Probate Law	3
1402 304 Corporations and Partnerships	3
1402 305 Personal Injury Law	3

Choice of 2 of the following	6
1402 306 Administrative Law	3
1402 307 Immigration Law	3
1402 310 Fundamentals of Patent, Trademark and Copyright Law	3
1402 331 Advanced Legal Research	3
1402 340 Computer Fundamentals for Paralegals	3
2207 321 Law in Society: Criminal Law (Political Science)	3
0501 261 Legal Environment of Business I (Accounting, Law, and Taxation)	3
1402 325 Seminar and Internship in Law	3
Total Semester Hours for Program	24
Optional Internship	
1402 326 Seminar and Internship in Law II: Cooperative Education	4 or 8

Specializations

Students completing the HISPANIC SPECIALIZATION must include the following legal specialty course:

1402 316 Skills for Bilingual Legal Personnel 3
In lieu of a second specialty course, Hispanic Specialization students may include:

1105 360 Hispanic Community Program Internship in Law (Spanish Department) 3

Students completing the PATENT, TRADEMARK and COPYRIGHT SPECIALIZATION must take the following legal specialty courses:

1402 310 Fundamentals of Patent, Trademark and Copyright Law 3

1402 311 Patent, Trademark and Copyright Law—Practice and Procedure 3

PRE-LAW STUDIES PROGRAM (18 semester hours)

The Pre-Law Studies Minor at Montclair State College is an interdisciplinary program designed to enhance the preparation of students planning to seek admission to law school by promoting the development of analytical and critical writing, reading, and thinking. The program offers students a balanced and varied background, enriching the student's academic major, in the acquisition of skills essential for success in the field of law.

Course of Study

ESSENTIAL SKILLS

Select 2 courses from this group (6 semester hours):

Department/Course Title
English: Advanced Expository Writing
Legal Studies: Fundamentals of Legal Research
Classics: English Vocabulary: Classical Roots
Speech and Theatre: Public Speaking
Linguistics: Language of the Law

Select 2 courses from this group (6 semester hours):

Philosophy and Religion: Logic
Philosophy and Religion: Critical Reasoning and Argument
Mathematics and Computer Science: Statistics
Mathematics and Computer Science: Mathematical Reasoning and Legal Problem Analysis
Speech and Theatre: Argumentation and Debate

BACKGROUND COURSES

Select 1 course from this group (3 semester hours):

History: Selected Topics: American History to 1876 or since 1876
Political Science: Institutions of American Government
Political Science: Constitutional Law: The Federal System
Philosophy and Religion: Philosophy of Law

Select 1 course from this group (3 semester hours):

Business Education: Contemporary Business
Economics: Principles of Economics: Macro
Accounting, Law and Taxation: Accounting for Non-Business Majors
Total Semester Hours for Program 18

Courses of Instruction

Q 1401 200

INTRODUCTION TO LAW AND LEGAL PROFESSIONS 3.0

An introduction to the meaning and function of law, the powers of the courts, and the jurisdiction of the courts. An exploration of traditional and evolving areas of law. A survey of the different professions and career options within the legal field. An assessment of the roles and importance of law in the lives of students and the public.

A 1401 400

SELECTED TOPICS IN LAW 3.0

Exploration of a timely and significant area of law. The specific topic will be announced each time that the course is offered.

Q 1402 220

INTRODUCTION TO PARALEGALISM 3.0

An introduction to certain basic areas of the law, to the legal process, and to the legal system, particularly as it operates in the State of New Jersey. The roles of the lawyer and the paralegal within the legal system. Familiarization with ethical considerations and specific paralegal skills in the areas of interviewing, investigation, and advocacy.

Q 1402 221

CIVIL LITIGATION 3.0

The terminology of civil law. Substantive and procedural principles relating to all stages of a civil law suit from commencement to judgment, particularly as applied to New Jersey Civil Practice Rules. Drafting of pleadings, motions, and other documents in a civil law suit. Trial and appellate procedures.

Prerequisite or corequisite: Q 1402 220.

Q 1402 230

FUNDAMENTALS OF LEGAL RESEARCH 3.0

Fundamental principles and methods of legal research. The use of a law library, case law, statutory law, and other sources. The application of the tools of legal research to case analysis, digesting legal opinions, and writing a law office memorandum. Not open to freshmen.

Prerequisite: Q 1402 220 is recommended.

Q 1402 301

DOMESTIC RELATIONS LAW 3.0

Basic concepts and scope of domestic relations law and family law practice. Familiarization with forms and procedures to train the legal assistant in this area. Ante-nuptial agreements, formalities of marriage, separation agreements, divorce.

Prerequisites: Q 1402 220, 221, 230.

Q 1402 302

REAL ESTATE LAW 3.0

Principles of real estate law and transactions to train the legal assistant in this area of practice. Conveyances of real property from the standpoint of seller and purchaser. Landlord-tenant relations.

Prerequisites: Q 1402 220, 221.

Q 1402 303

WILLS, TRUSTS, AND PROBATE LAW 3.0

Basic concepts, practice, and procedure in wills, probate, and trusts. Will drafting, estate planning, probate procedures, and estate administration. Forms and questionnaires utilized by paralegals in these areas.

Prerequisites: Q 1402 220, 221.

Q 1402 304
CORPORATIONS AND PARTNERSHIPS 3.0
 Legal characteristics and tax aspects related to sole proprietorship, partnership, limited partnership, and corporation. Formation, operation, and dissolution of the corporate entity. Drafting of legal forms utilized by paralegals in these areas.
Prerequisites: Q 1402 220, 221, 230.

Q 1402 305
PERSONAL INJURY LAW 3.0
 Legal concepts and terminology of personal injury law, both substantive and procedural. Drafting of pleadings and other documents utilized by paralegals in personal injury practice. Negligence, medical malpractice, products liability.
Prerequisites: Q 1402 220, 221, 230.

Q 1402 306
ADMINISTRATIVE LAW 3.0
 Basic concepts, historical perspective, theoretical background, practice, and procedure in administrative law, agencies, and process. New Jersey administrative law system and hearing process.
Prerequisites: Q 1402 220, 221.

Q 1402 307
IMMIGRATION LAW 3.0
 Basic overview of Immigration and Naturalization Act as well as historical and sociological perspective of U.S. immigration. Practice and procedure of Immigration Law as pertains to both administrative agency processing and consular processing. Visa applications, naturalization, citizenship, deportation, exclusion, asylum and refugee practice.
Prerequisites: Q 1402 220, 221.

Q 1402 310
FUNDAMENTALS OF PATENT, TRADEMARK, AND COPYRIGHT LAW 3.0
 Substantive and procedural legal foundation in these areas. Application and registration procedures. Standards of patentability. Trademark registration. Subject matter of copyrights.

Q 1402 311
PATENT, TRADEMARK, AND COPYRIGHT LAW—PRACTICE AND PROCEDURE 3.0
 Substantive and procedural principles in these areas, including practice and procedure before the U.S. Patent and Trademark Office and the U.S. Copyright Office.
Prerequisite: Q 1402 310.

Q 1402 316
SKILLS FOR BILINGUAL LEGAL PERSONNEL 3.0
 Translating, interpreting, and cultural fluency as applied to the legal field and in particular to the role of bilingual paralegals.
Prerequisite: Fluency in Spanish required.

Q 1402 325
SEMINAR AND INTERNSHIP IN LAW 3.0
 Field work experience of 90 hours in a private sector law office, corporation, bank, or public sector agency. Also includes classroom seminar.
Prerequisites: Q 1402 220, 221, 230
Prerequisites or corequisites: 2 legal specialty courses chosen from among Q 1402 301, 302, 303, 304 and 305 and also 2 legal specialty courses chosen from among Q 1402 306, 307, 310, 311, 340, 316, 2207 321, and 0501 261. Instructor's permission.

Q 1402 326
SEMINAR AND INTERNSHIP IN LAW II: COOPERATIVE EDUCATION 4.0 or 8.0
 Academic study integrated with supervised paid employment situation outside the formal classroom environment. Part-time (20 hours per week) or full-time (40 hours per week).
Prerequisites: Q 1402 220, 221, 230, 325.

Q 1402 331
ADVANCED LEGAL RESEARCH 3.0
 Students refine and perfect principles and methods of legal research, how to use a law library, and to work with statutory, case law and other sources. Students apply to practical legal problems and research techniques learned in Fundamentals of Legal Research.
Prerequisite: Q 1402 230.

Q 1402 340
COMPUTER FUNDAMENTALS FOR PARALEGALS 3.0
 An introduction to the structure of a computer, the function of programming language, computer application in the legal environment, available legal software, and legal applications of data bases
Prerequisites: Q 1402 220, 221, 230.

Q 1499 105
PRACTICAL SPANISH FOR LEGAL PERSONNEL 3.0
 Course designed to provide personnel dealing with Hispanics in legally-related situations with a basic knowledge of the Spanish language as it relates to the performance of their jobs in assisting Hispanics whose problems vary from tenancy and divorce to welfare, social security, immigration, and the like. (Also offered for credit in the Spanish and Italian Department.)

Q 1499 290
LANGUAGE OF THE LAW 3.0
 This course introduces the student to the characteristic properties of legal English—both its linguistic structures and its social and psychological functions. The ultimate objective is to show that, depending upon how it is used, legal language can obfuscate or clarify, persuade or fail to persuade, hinder or facilitate communication. (Also offered for credit in the Linguistics Department.)

New Jersey School of Conservation

SCHOOL OF PROFESSIONAL STUDIES
Director: John J. Kirk

The New Jersey School of Conservation, the second largest environmental education center in the world, is operated for the State of New Jersey by Montclair State College through the School of Professional Studies. The 240-acre facility is located in Stokes State Forest.

Through its varied programs, the School of Conservation aims to develop a reverence for life and the formation of a land ethic which will influence students for the rest of their lives.

The School's activities and facilities are designed to handle both short- and long-term learning experiences. These range from two-and-one-half-, four-, or five-day programs for 12,000 elementary and secondary school students to graduate courses for over 600 students of the state colleges, private colleges, and Rutgers, The State University. In addition, since the School is operationally a part of Montclair State College, an increasing number of the College's curriculum planners are looking toward creating or modifying courses to be offered for Montclair State credit through the School. The School of Conservation also conducts workshops, which earn Montclair State College graduate/undergraduate credit, for elementary and secondary school teachers and for adults interested in the teaching and learning of environmental concerns. The faculty of the School have organized and developed one-day workshops for community action organizations.

Courses of Instruction

1 0843 460

PRACTICUM IN ENVIRONMENTAL EDUCATION 3.0

This course is designed to provide teachers and supervisors with a background of experience and knowledge which will enable them to organize and conduct conservation education programs in their own communities. Using an extensive library of conservation education materials, students formulate teaching units, lists of teaching aids, and projects suitable for use in their own communities. Participating in conservation projects with the children in the demonstration camp furnishes a practical background for research and discussion. (For camp staff only.)

1 0843 462

ADMINISTRATION AND SUPERVISION OF ENVIRONMENTAL FIELD STUDY 3.0

This course is designed to provide practical experience in the solution of problems in planning, supervising, and administering a field experience in environmental education. Among the phases considered are those of a historical perspective in the evolution and development of the movement combined with current practices. Discussions will include staff selection and supervision, program development, kitchen management, budgeting and financing, and general administrative procedures. (For camp staff only.)

1 0843 495

WORKSHOP UTILIZING NATURAL ENVIRONMENTS 1.0

To provide classroom teachers in all disciplines with experiences in using the natural environment to supplement classroom experiences. Opportunity for teachers to increase their knowledge of as well as skills in the techniques of incorporating the physical, biological, and socio-cultural components of the environment in their curricula will be emphasized through the use of small group lecture sessions held in the natural environment being described. Students are provided with the opportunity of administering and experimenting in each of four such environments out of a choice ranging from 15 to 20 specific subject areas.

1 0843 496

FIELD STUDY IN HUMANITIES AND NATURAL SCIENCE 1.0

Provides teachers in varied and diversified subject areas with an understanding of how the humanities and sciences may be taught in natural environments for the purpose of developing an environmental sensitivity.

1 0843 497

FIELD STUDIES IN SOCIAL STUDIES AND OUTDOOR RECREATION 1.0

Provides an understanding of how outdoor pursuits and social studies may be taught using natural environments to develop environmental sensitivity. Does not meet resident requirement.

1 0843 499

ENVIRONMENTAL IMPACT OF RECREATION ON NATURAL AREAS 3.0

Students will examine the impact of recreation on natural areas in four of New Jersey's major ecosystems: Upland Forest, Pine Lands, Salt Marsh and Barrier Beach. On-site visits to a variety of natural areas will allow for comparison and contrast of heavily used sites with those which have been relatively undisturbed. Students will inventory the natural resources of each site and will use their inventories to develop "recreation impact statements". First hand knowledge of the four eco-systems will be gained by camping in or near each area.

Prerequisite: Special fee.

Toxicology

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

Director: Eileen Snyder

In our modern world we are exposed to an increasingly complex array of chemical substances. Determining the effect that these substances could have on our health and environment and the likelihood it will occur is the task of a toxicologist. The toxicologist identifies and tests chemical substances for adverse effects, then interprets and evaluates the results in terms of potential hazard or safe use. Among the areas in which toxicologists make contributions are solutions to the problems of drug use and abuse, food additive safety, safeguarding workplace exposures, and maintaining air and water purity.

The program is a joint venture of the School of Mathematical and Natural Sciences at Montclair State College and the School of Health Related Professions of the University of Medicine and Dentistry of New Jersey. Students will attend Montclair State College for three years and one summer taking instruction in chemistry, biology, mathematics, physics, introductory toxicology, and general education. The summer between the junior and senior years will be devoted to a traineeship in industry or a regulatory agency. The last two semesters of the program will be spent at the University of Medicine and Dentistry of New Jersey taking courses and clinical work in toxicology and participating in laboratory research projects related to toxicology.

Prospective applicants should have completed high school courses in chemistry, biology, and physics as well as four years of high school mathematics. A minimum of four academic years and two summers will be required to complete this program. Students who successfully complete the program will receive a Bachelor of Science degree from Montclair State College as well as a certificate of completion from University of Medicine and Dentistry of New Jersey.

Toxicology Major

Required Courses

	Semester Hours
0426 100 Introduction to Toxicology	1
0426 310, 311 Principles of Toxicology I, II	6
0426 * Industrial Externship	6
0426 420* Principles of Pharmacology for the Toxicologist	4
0426 430* Forensic Toxicology	1
0426 * Forensic Toxicology Internship	2
0426 440* Clinical Toxicology	2
0426 * Clinical Toxicology Internship	2
0426 450* Pathology for Toxicologists	4
0426 490* Toxicology Seminar	2
0426 495* Research in Toxicology	6

*Course offered at University of Medicine and Dentistry of New Jersey.

Collateral Courses

0401 140	Biology of the Cell	4
0401 131	General Zoology II	4
0401 350	Microbiology	4
0401 415	Genetics	4
0401 416	Genetics Laboratory Investigations	1
0401 442	Human Physiology	4
1905 120, 121	General Chemistry I, II	8
1905 230, 231	Organic Chemistry I, II	6
1905 232	Experimental Organic Chemistry I	2
1905 315	Environmental Chemical Analysis	3
1905 370	Biochemistry	3
1902 193, 194	College Physics I, II	8
1701 122, 221	Calculus I, II	8
1701 242	Biostatistics	3

Courses of Instruction

W 0426 100
INTRODUCTION TO TOXICOLOGY 1.0
Survey of the scope and fields of toxicology including current events, legislation, and career opportunities.

W 0426 310
PRINCIPLES OF TOXICOLOGY I 3.0
Examination of the major classes of toxic agents by identifying characteristics of their toxicity and factors which modify this outcome.

W 0426 311
PRINCIPLES OF TOXICOLOGY II 3.0
Survey of the effects of toxic agents on target organs and physiologic systems including teratology; mutagenicity; carcinogenicity; toxicity of the central nervous, musculoskeletal, reproductive, cardiovascular, hematopoietic, endocrine and immune systems; hepatic, renal and ocular toxicity.

W 0426 420
PRINCIPLES OF PHARMACOLOGY FOR THE TOXICOLOGIST 4.0
Lecture and laboratory course for toxicology majors introducing fundamental pharmacological principles applied to toxicology, receptor concept; dose-response relationship; fate of chemicals in the organism; kinetics; factors influencing toxicity; chemical interactions; methods of toxicity evaluation.
Prerequisite: W 0426 311.

W 0426 430
FORENSIC TOXICOLOGY 1.0
Introduction to the medicolegal aspects of exogenous chemical involvement in human fatalities.

W 0426 440
CLINICAL TOXICOLOGY 2.0
Lecture and laboratory course for toxicology majors introducing the application of analytical chemical methodology for the identification and quantification of drugs and exogenous chemicals in human body fluids.

W 0426 450
PATHOLOGY FOR TOXICOLOGISTS 4.0
Lecture and laboratory course for toxicology majors introducing basic concepts of disease mechanisms and disease processes, particularly related to mammalian species commonly used in toxicological evaluation.
Prerequisite: W 0426 311.

Transcultural Studies

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Lois A. More: General Program Coordinator

World Cultures

Program A
The concentration in world cultures, offers opportunities to analyze generalizations regarding human behavior and to examine universal aspects of social institutions that transcend boundaries of culture areas. The program prepares students to teach world cultures in junior and senior high schools. As a liberal arts major, it is preparatory to graduate specialization in cultural anthropology, geography, history or political science, as well as careers in business, museums, government or private agencies whose focus is the non-West.

	Semester Hours
Core Requirements	9
J 2202 100	Cultural Anthropology
N 2206 101	Cultural Geography
P 2205 200	The Study of History

Unit Requirements 12

Choose two units:

Select two:

J 2202 312	Peasant Culture
P 2205 132	Introduction to Chinese Civilization
P 2205 133	Modern Chinese Civilization
S 2207 403	Government and Politics of China and Japan
Select two	
J 2202 431	Development of Indian Character and Culture
P 2205 131	Introduction to Indian Civilization
S 2207 404	Government and Politics of India and South Asia
Select two	
J 2202 301	Peoples of Africa
P 2205 108	Introduction to African Civilization
S 2207 402	Government and Politics of Africa
Select two	
J 2202 304	Peoples of the Soviet Union
P 2205 323	History of Russia to 1917
S 2207 407	Government and Politics of the U.S.S.R.
Select two	
J 2202 302	Native Latin Americans
N 2206 308	Land and Life in Latin America
P 2205 114	Early Latin American Civilization
P 2205 116	Modern Latin American Civilization
S 2207 405	Government and Politics of Latin America
Select two	
J 2202 310	Cultures of the Middle East
P 2205 109	Introduction to Islamic Civilization
S 2207 406	Government and Politics of the Middle East

Electives 12

J 2202 202	Culture Change & Modernization
J 2202 405	Psychological Anthropology
J 2202 204	Anthropology of Religion
J 2202 203	Anthropological Linguistics
P 2205 461	Cultural History of Primitive Societies
P 2205 330	Chinese Social History Through Literature
P 2205 432	Development of Japanese Character and Culture
N 2206 421	Population Problems of the World
N 2206 423	Culture and Resource Utilization
J 2202 412	Cultural Ecology
J 2202 415	Women in Traditional Society
S 2207 202	International Relations
S 2207 303	Politics of Development and Modernization
S 2207 413	Afro-Asian Foreign Policy
	Independent Transcultural Study

Required Total 33

Asian Studies**Program B**

Asian Studies, a program in the social sciences and humanities, introduces the classical Asian civilizations and their modern transformations. The program offers regional studies in South or East Asia. Students prepare for Asian graduate study and careers in journalism, government, and international business or private agencies whose focus is Asian.

Requirements

Semester Hours

Introduction-Mode of Inquiry	3
Requirement: P 2205 200 The Study of History	
Interdisciplinary Regional Concentration	12
(One regional concentration)	
A. East Asia	
Requirement	
P 2205 132 Introduction to Chinese Civilization	3
Electives (3 courses in 3 disciplines)	9
J 2202 312 Peasant Culture	
S 2207 403 Government and Politics of China & Japan	
U 2208 334 Comparative Social Analysis	
4910 460 Independent Study: East Asia	
B. South Asia	
Requirement	
P 2205 131 Introduction to Indian Civilization	3
Electives (3 courses)	9
J 2202 431 Development of Indian Character and Culture	
S 2207 404 Government and Politics of South Asia and India	
Indian Literature and Culture	
Independent Study: South Asia	
Comparative Studies-Modernization	6-9
Electives (2 or 3 courses)	
U 2208 334 Comparative Social Analysis	
C 2204 303 or 403 Economic Growth and Development or	
Comparative Economic Systems	
J 2202 312 Peasant Culture	
S 2207 303 The Politics of Development and Modernization	
N 2206 409 Urbanization in World Perspective	
General Electives (3 or 4 courses)	9-12
J 2202 310 Cultures of the Middle East	
J 2202 432 Development of Japanese Character and Culture	
P 2205 109 Introduction to Islamic Civilization	
P 2205 133 Modern Chinese Civilization	
P 2205 223 The Communist Revolution in China	
P 2205 330 Chinese Social History through Literature	
R 1509 237, 1599 231 Oriental Philosophy	
R 1599 212 Oriental Religions	
S 2207 413 Afro-Asian Foreign Policy	

Required Total 33

Latin American Studies**Program C**

The Latin American Area Studies specialization offers the students a wide range of opportunities, both in terms of academic flexibility and future professional endeavors. The specialization provides a three-pronged approach: (1) the student is exposed to several disciplines, which analyze Latin America and Latin Americans in depth; (2) there is a language component, which enables the student to better understand local cultures and to communicate effectively within them; and (3) the field experience components of this specialization give the student the opportunity to put into practice the knowledge acquired in the classroom. Those graduating within this specialization will have a broad background, which will allow them great latitude in career choices.

Semester Hours

Requirements 19-25

N 0308 100	The Many Worlds of Latin America: Interdisciplinary Perspectives
P 2205 114	Early Latin American Civilization
N 0308 300	Pre-Field Work Seminar in Latin American Area Studies
N 0308 400	Field Experience in Latin American Area Studies
N 0308 401	Post-Field Work Seminar in Latin American Area Studies

Electives 8-14

Students are required to take courses in a minimum of three fields or disciplines. Early Latin American Civilization—which is a requirement—fulfills this minimum history need. Elective offerings are in the following fields: Anthropology, Comparative Education, Economics, Geography, History, Political Science, Sociology, Spanish, and Linguistics.

Courses of Instruction

Descriptions of required courses not listed here may be found under the sections of this catalog devoted to the departments of Anthropology; Economics; Environmental, Urban, and Geographic Studies; History; Philosophy and Religion; and Political Science.

N 0308 300	PRE-FIELD WORK SEMINAR IN LATIN AMERICAN AREA STUDIES	3.0
This course prepares students for their field experience in either the Hispanic communities of the mainland or in selected regions of Latin America. It is designed to acquaint the students with techniques of planning for different kinds of field work, designing proposals and learning to take into account culture differences. (The faculty represents a variety of disciplines and the teaching is interdisciplinary.)		
<i>Prerequisite: N 0308 100.</i>		

N 0308 400	THE FIELD EXPERIENCE IN LATIN AMERICAN AREA STUDIES	6.0-12.0
The field experience permits students participation in the Latin American area studies program to acquire first-hand knowledge of some aspect of life in a Latin American community. The students, after having selected their topics, are responsible for sending reports from the field, developing the techniques they need for working in cooperation with program staff, and demonstrating that they have begun to interpret local reality in a disciplined manner.		
<i>Prerequisites: N 0308 100, 300, or course in similar field.</i>		

N 0308 401
**POST-FIELD WORK SEMINAR IN
 LATIN AMERICAN AREA STUDIES** 3.0
 The post field work seminar enables the students to organize ideas and materials gathered during the field experience in an analytic report. The seminar affords students the opportunity to exchange ideas and information with other members of the group on their specific field experiences as these relate to report preparation.
Prerequisites: N 0308 300, 400.

Special Programs

Afro-American Studies Minor (18 semester hours)

Director: Sandra

The undergraduate minor in Afro-American studies is an interdisciplinary academic program designed to be complementary to any of the undergraduate majors of Montclair State College. The Afro-American and African syntheses within the context of African, American and European culture are presented with their transcultural, interethnic and intellectual traditions—providing an appreciation of the heritage, arts, sciences and values of non-European and non-Euro-American groups. The Afro-American studies program will also provide for Black students a greater knowledge of self, self-respect and self-esteem. Afro-American studies for other students will build knowledge and awareness of Afro-American history, Afro-American culture and Afro-American people. Students who are interested in completing the requirements of the minor are urged to consult with the director about their programs.

Required Courses

	Semester Hours
P 2205 217 History of Black Americans	3
S 2207 411 Politics of Race	3

Electives

Select 12 semester hours from the appropriate interdepartmental list to be obtained from the director of Afro-American studies.

Courses of Instruction

Anthropology

J 2202 301
PEOPLES OF AFRICA 3.0
 Analyzes diversity in the lifestyles of representative cultures. Discussion of prehistory, culture change, and contemporary problems in Sub-Saharan Africa.

English

M 1501 238
AFRO-AMERICAN WRITERS 3.0
 Major Afro-American writers from colonial times to the present.

M 1503 266
AFRICAN MYTH AND LITERATURE 3.0
 The nature of the sub-Sahara experience and vision through African myths and literary works within the context of culture, criticism and theory.

Environmental, Urban & Geographic Studies

N 2206 412
GEOGRAPHY OF SUB-SAHARA AFRICA 3.0
 Tropical and regional study of Africa. Examines soils, vegetation, climate, physiography, mineral resources and other aspects of the physical environment in the light of man's habitation of the continent.

Fine Arts Department

G 1003 275
AFRO-AMERICAN ART 3.0
 Afro-American art in the United States from colonial times to the present.

G 1003 458
**TRADITIONAL ARTS OF
 SUB-SAHARAN AFRICA** 3.0
 The painting, sculpture and minor arts of the cultures of Africa; prehistoric remains and art traditions of the more recent past in the context of stylistic groupings, relation to ceremony and to daily life; symbolism and relations to the arts of other cultures.

History

P 2205 108
INTRODUCTION TO AFRICAN CIVILIZATION 3.0
 Pre-Colonial African civilization and its eclipse under slavery and the colonial onslaught. Principal social, political and environmental systems of the period.

P 2205 217
HISTORY OF BLACK AMERICANS 3.0
 Role of Americans of African descent in the development of the United States. Contributions of Black Americans from initial discovery and exploration to the mid-20th century.

Music Department

H 1005 150
**INFLUENCE OF AFRO-AMERICAN
 CULTURE ON MUSIC** 3.0
 Ways in which the Afro-American culture has affected the development of American folk and art music.

Political Science

S 2207 402
**GOVERNMENT AND POLITICS OF
 AFRICA** 3.0
 Governmental and political development, organization and practices in sub-Saharan Africa.

S 2207 411
THE POLITICS OF RACE 3.0
 Black participation in the American political system from the Colonial period to the present.

Psychology

T 2001 243

PSYCHOLOGY OF PAN AFRICAN NOVELS

3.0

A role-reciprocal analysis of intrapsychic cognitive and psychosocial themes dealing with the effects of colonialism and slavery as well as efforts towards national building and the search for self-determination.

Prerequisite: 6 credits in Psychology or English Literature.

Sociology

U 2208 205

THE BLACK FAMILY

3.0

The Black family in American society; historical perspectives and contemporary conflicts surrounding the Black family.

Archaeology Minor (18 semester hours)

Jointly sponsored by the Anthropology, Classics, and Fine Arts departments, this minor offers the student an interdisciplinary program in the study of ancient cultures. The minor is flexible enough to allow students to explore the newest scientific techniques in excavation, dating, and laboratory analysis as well as the historical and aesthetic appreciation of the arts of ancient societies. It also encourages the study of foreign languages and those natural sciences which aid in the reconstruction of ancient cultures.

An archaeology minor is useful in careers such as publishing, the travel industry, environmental impact studies, and secondary and college teaching. Those students who wish to pursue advanced work in archaeology or related fields leading to careers in research and teaching, excavation, museum work, and salvage/contract archaeology will find the minor excellent preparation for graduate study especially when combined with a major in an appropriate area such as anthropology, classics, or art history.

Required Courses

	Semester Hours
2202 205 Prehistoric Archaeology	3
4903 181 Classical Archaeology	3

Electives

Select 12 semester hours from the appropriate list to be obtained from the coordinator of the program. This group of courses will include at least one in fine arts

Cooperative Education

Cooperative Education is a unique learning opportunity integrating classroom studies with supervised work experiences. Co-op enables a student to explore various career options and gain valuable practical experience prior to graduation.

Faculty, staff, or the individual student may arrange paid full- or part-time internships in businesses and agencies for a minimum of one semester. All positions are required to meet Co-op work-learning criteria. To register for the program, a student must obtain a "Permission to Register" form from the Co-op office.

Depending upon the academic department, students can earn major or free elective credits. Four, six, or eight credits are awarded for each Co-op semester. The exact amount is dependent upon the duration of the position. A maximum of 16 credits can be earned through Co-op.

Application to the program is accepted as early as the sophomore year. Students with a minimum grade point average of 2.25 and 45 earned credits are invited to participate in the program. Specific departmental criteria may be required. A Professional Preparation Seminar stressing interviewing techniques must be attended by all applicants.

Employers participating in the Co-op program determine the student's job description. Students meeting employers' criteria are referred for interviews. The actual hiring decisions are made solely by the employers. The Co-op office plays no role in these decisions.

Once hired, a student is assigned to a faculty coordinator who supervises the learning experience. This coordinator requires academic projects and seminars designed to enhance the student's learning. Work performance is evaluated by the work supervisor. A letter grade is awarded by the assigned faculty member for the completion of all assignments.

Students interested in the Cooperative Education program should contact the office early in each semester.

Career Development Co-op Programs

4950 301	Cooperative Education-Experience I	3.0-8.0
		Variable
4950 401	Cooperative Education-Experience II	3.0-8.0
		Variable

Department Co-op Programs

0701 499	Cooperative Education in Computer Science	3.0-8.0
		Variable
1507 301	Cooperative Education (English)	8.0
2099 391	Cooperative Education in Psychology	9.0
2208 390	Cooperative Education in Sociology	8.0
0991 405	Cooperative Industrial Internship	4.0-8.0
		Variable
2103 381	Cooperative Education in Recreation and Parks	4.0-8.0
		Variable
0845 230	Introduction to Business Work Experience	4.0-8.0
		Variable
1499 326	Seminar and Internship in Law III: Cooperative Education (optional elective)	4.0-8.0
		Variable
0503 491	Cooperative Education-Quantitative Methods	3.0-8.0
		Variable
0504 491	Cooperative Education-Finance (only for Coop II's)	3.0-8.0
		Variable
1102 380	Cooperative Education for the French Major	4.0-8.0
		Variable
1104 385	Cooperative Education (Italian)	4.0-8.0
		Variable
1105 385	Cooperative Education (Spanish)	4.0-8.0
		Variable
1198 385	Cooperative Education (Portuguese)	4.0-8.0
		Variable
0401 409	Cooperative Education (Biology)	1.0-4.0
		Variable

Film Minor

An interdisciplinary program, designed for students in both the humanities and the fine arts, the Film Minor offers experience in filmmaking, as well as criticism, history, theory, and aesthetics.

Required Courses (6 semester hours)

K 4903 196	Introduction to the Film	English
M 1511 196		
G 1010 218	Filmmaking I	Fine Arts

Electives

Survey Courses (6 semester hours)

Students must select two of the following:

G 1010 219	Filmmaking II	Fine Arts
G 1010 299	History of Cinema as Art	Fine Arts

M 1511 250	Major Film Directors	English
M 1511 255	World Film	English
M 1511 260	Major Film Genres	English

Specialized Courses (6 semester hours)

Students must select two of the following:

G 1010 221	Video as Art	Fine Arts
G 1010 453	Filmmaking III	Fine Arts
G 1010 499	Filmmaking IV	Fine Arts
K 4903 288	French Film	French
M 1511 270	The American Film	English
M 1511 290	Drama on Film	English
M 1511 291	Film and Society	English
M 1511 355	The Silent Film	English
M 1511 360	Film Comedy	English
M 1511 370	Film of the Hollywood Studio Years	English
M 1511 470	The Contemporary Film	English
M 1511 490	Special Topics in Film Studies	English
V 4903 277	Italian Film	Spanish/Italian

Health Careers Program

The Health Careers Program provides highly motivated and academically capable disadvantaged students with potential for undergraduate success opportunities to prepare for careers in the health professions. This goal is achieved through a balance of formal course work, comprehensive supportive services, field experiences and financial assistance. Successful completion of the program is designed to increase competitive admission into professional schools.

Acceptance into the program is dependent upon being disadvantaged by virtue of environment or economic circumstances.

The program works in close cooperation with the University of Medicine and Dentistry of New Jersey and Fairleigh Dickinson University School of Dentistry. All field experiences are held at these facilities.

International Studies Program

The Program in International Studies at Montclair State College is designed to coordinate ongoing international and global endeavors on campus, to plan for new efforts, and to develop proposals to enhance international programs at the college. Additionally, the program strengthens the international dimension of teaching and research, develops curricula and learning resources related to international studies, and encourages awareness of global issues among Montclair faculty and students as well as the wider community.

The Program in International Studies has both foreign and domestic functions. In addition to working with the Foreign Student Advisor to ease on-campus study and living experiences for our international students, the program director advises American students regarding study abroad opportunities.

At the present, most of the college's study abroad programs are offered in conjunction with the NJCIE (New Jersey Council for International Education). The NJCIE offers study abroad programs to eligible students attending most of New Jersey's state colleges. It is now in its twenty-second year of operation and has sent nearly two thousand New Jersey students to England, Australia, Denmark, Israel, and a number of other countries. Upon successful completion of the program, students are usually assigned 15-16 credits, which may be applied to fulfill general education, major, or elective requirements. Students usually find that for little more money than they would spend at home they can experience an exciting semester abroad. Students are entitled to the same forms of financial assistance available to regular students, since they are technically considered to be students at their colleges while abroad. In addition to programs offered in conjunction with NJCIE, other opportunities allow students to study in China, Italy, Austria, Argentina, Brazil, and Spain.

Additional information about the program and application forms are available by contacting the Director of International Studies, Dr. Harriet E. Klein, Russ Hall 205, telephone (201) 893-7556.

Reserve Officers Training Corps (ROTC)

Army

The department of Military Science at Seton Hall University offers courses and a program in military science designed to qualify young men and women for commissions in the U.S. Army. Officers commissioned through ROTC are educated by the same professors, under the same curricula and at the same institutions which produce civilian leaders; earn degrees in the field of their choice; represent all geographic, economic and social strata; are highly motivated, open-minded and civilian oriented. Army ROTC aids students by providing leadership and management experience found in few college courses; providing opportunity for a military career in the active army or a reserve component; developing self-discipline, physical stamina and poise; enhancing development of management skills; and developing qualities basic to success in any career.

Montclair State College in concert with Seton Hall University has provided the opportunity for students interested in the ROTC program to receive instruction in basic military science courses at the Montclair campus for college credit. (All military science courses are applicable as free elective credits toward graduation from MSC.) Registration for these basic courses is through MSC. While basic instruction is open to all students, only those with two academic years remaining (undergraduate or graduate) may matriculate into the program leading to a commission as a second lieutenant.

In addition, the Army awards scholarships on a competitive basis to outstanding young men and women who are interested in the Army as a career. The scholarships provide tuition, textbooks, laboratory fees, and a monetary allowance of \$100 each month for up to ten months of each school year the award is in effect. Direct inquiries to the Scholarship Officer at Seton Hall, (201-763-3078), or to the MSC Office of the Vice President for Academic Affairs.

Courses of Instruction

9 1801 100
INTRODUCTION TO U.S. ARMY AND ROTC 1.0
Military organizations, customs, tradition, and life-styles. Introduction to basic military skills; role of the U.S. Army; branches of the Army; benefits of the service; professionalism and ethics of the Army officer.

9 1801 130
TOPOGRAPHICAL MAP READING 1.0
An introduction to topographical map reading and land navigation techniques. Methods of navigating using the magnetic compass and natural terrain features. Use of map and compass in practical orienteering exercises.

9 1801 160
AMERICAN MILITARY HISTORY 2.0
A study of the development of American military institutions, policies, experiences and traditions in peace and war. From colonial times to the present. Emphasis will be on the relationship between the military and other aspects of American society and the role of the military in the establishment, expansion preservation, and development of the nation.

Air Force

Montclair State students can earn appointments as commissioned officers in the U.S. Air Force, through an ROTC cross-town agreement with New Jersey Institute of Technology. Students with two or more years of college remaining in either undergraduate or graduate studies are eligible to apply. Credits for the general military, professional officer courses and aerospace studies, taught at NJIT are applicable as free elective credits toward graduation from MSC. For information on the conditions, benefits, and procedures of the program, contact the Office of the Vice President for Academic Affairs.

Special Education

Although there is no department of Special Education at Montclair State College, there are four undergraduate and 11 graduate programs which offer preparation for a variety of special education professions. These programs are coordinated by the Council of Special Education Programs (COSEP). This interdisciplinary unit brings together programs from the Schools of Humanities and Social Sciences, Professional Studies, and Fine and Performing Arts. Because COSEP encourages academic programs which include practical experience as an essential component of training, it maintains the Psychoeducational Center, which is located on campus.

Information about the following programs may be found in this catalog: Communication Sciences and Disorders (Audiology and Speech Pathology), Music Therapy, Reading, Therapeutic Recreation.

Women's Studies Minor

The Women's Studies Minor program is an interdisciplinary academic program. The minor includes two required three credit core courses: an introductory interdisciplinary course and an independent study project at the end of the minor program. Flexibility of choice of the other 12 credits from courses in various academic departments permits a student either to get a broad perspective of women's studies or to specialize in an area such as women in literature or women in society. Each student should consult with the faculty advisor of the Women's Studies program, to work out a suitable course of studies to meet the minor requirements. The Women's Studies minor consists of 18 credits.

Required Courses

	Semester Hours
2220 201 Women's Worlds	3
2220 401 Independent Study	3

Electives

Select 12 semester hours from the appropriate interdepartmental list to be obtained from the coordinator of the program 12

Courses of Instruction

- 9 2220 102
WOMAN'S WORLD
An interdisciplinary course designed to introduce students to the field of women's studies and to the faculty participating in the program. Cross listed with psychology under T 2001 102.
- 9 2220 401
INDEPENDENT STUDY 3.0
Either a research project or a practicum in an area of women's studies.
- C 2204 250
SELECTED TOPICS IN ECONOMICS 3.0
(Economics of Women)
An in-depth study of a particular theoretical or applied area of economics. (Topic will be Economics of Women.)
- J 2202 415
WOMEN IN TRADITIONAL SOCIETY 3.0
Surveys several traditional preindustrial societies with special emphasis on the place of women in each society studied. The connections between environment, technology and the female work role are investigated, and the amount of power women have over their own lives and those of others is assessed. The place of women in each society's symbolic systems is also analyzed.

- K 4903 186
MYTHS AND IMAGES OF WOMEN IN FRENCH LITERATURE 3.0
Literary treatments of female characters in representative works from the middle ages to the present. Taught in English.

- K 4903 383
WOMEN IN ANTIQUITY 3.0
Women in the ancient world and their contributions to history, literature, philosophy, and the arts. Emphasis on Greco-Roman civilization, with comparative study of other ancient cultures.

- M 1501 294
WOMEN POETS 3.0
Selected poets from Sappho through Emily Dickinson to Sylvia Plath, examined in relation to contemporary women poets.
Prerequisite: M 1501 160.

- M 1503 372
MAJOR WOMEN PROSE WRITERS 3.0
Significant relationships among the writings of not more than five women such as Mme. de Staël, Mary McCarthy and Susan Sontag.

- M 1503 492
SEMINAR IN COMPARATIVE LITERATURE 3.0
A culture, theme, era or literary approach studied through international literary masterpieces. Topic: selected writings in Women's Utopian and science fiction literature with an emphasis on the literature of the twentieth century.

- P 2205 215
WOMEN IN AMERICAN HISTORY 3.0
History of American women from colonial times to the present, with particular emphasis on women's work, social and political movements, and their changing roles in American society.

- P 2205 309
FEMINIST IDEAS IN WESTERN THOUGHT 3.0
History of feminist ideas and theories about women and womanhood. Students examine important theoretical literature in Europe and America from 18th century to present. Original texts of Wollstonecraft, Fuller, Mill, and Freud will be considered.

- Q 1505 255
WOMEN AND LANGUAGE 3.0
A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on women and language plus practical experience in collecting and analyzing linguistic data.

- 1599 267
WOMEN IN RELIGION 3.0
The roles which have been held by women in the various religious traditions of the world.

- S 2207 214
WOMEN IN POLITICS 3.0
The role of women in the functioning of the American political system.

- T 2001 265
PSYCHOLOGY OF WOMEN 3.0
The course will investigate contemporary issues in the psychology of women (an opportunity for original research will be provided). Theoretical positions and recent research in the area will be examined.
Prerequisite: 6 semester hours in psychology.

- U 2208 414
SELECTED TOPICS IN APPLIED SOCIOLOGY 3.0
(Women and Work)
A study of women's work in contemporary society.

U 2208 430

SOCIOLOGY OF SEX ROLES

3.0

The social determinants of differences between women and men and the effect of sex role differentiation in the social institutions of marriage and family, the economy and work situation, formal education, health, mass media, and religion. Special emphasis is placed on the impact of social change on sex roles in contemporary society.

20842 335

THE LEGAL RIGHTS OF WOMEN

3.0

This course will include some historical background for clearer understanding of what the changes in laws mean for women and men. Discussion and study of the effect of Affirmative Action, Civil Rights legislation and Titles VI and IX will be included. Legal rights in the areas of education, employment, finances and credit, property ownership, marriage and divorce, health care, pensions and criminal law will be covered.

30821 264

SEXISM IN AMERICAN EDUCATION

3.0

Designed to analyze sexism on the American schools. Emphasis on sex role stereotyping in teacher behavior, peer behavior, curriculum and textbook content.

61301 205

WOMEN IN CONTEMPORARY SOCIETY

3.0

Those historical developments and social forces which have shaped the status of women in America. Discussion of current concerns and role options available to today's women.



Appendix of Scholarships and Awards

Accounting, Law and Taxation

KATHE BRODT MEMORIAL SCHOLARSHIP

- Amount:** \$500
Criteria: Concentration in accounting, 90 credits completed toward the baccalaureate degree, registered for full-time study (at least 12 semester hours each term during the year of grant), academic achievement and financial need.
Contact: Chairperson, Accounting, Law and Taxation Department

Biology

CHARLES HADLEY MEMORIAL FUND FOR INDEPENDENT STUDENT RESEARCH

- Amount:** Up to \$275
Criteria: Students who have displayed excellence of work and need for financial assistance to complete their research and independent student projects in biology.
Contact: Chairperson, Biology Department

VIOLA WHITNEY PFLEGER FUND

- Amount:** \$500
Criteria: Students of horticulture recommended by chairperson of biology or designee.
Contact: Chairperson, Biology Department

Business Administration

RAFFAELA BASILE MEMORIAL SCHOLARSHIP

- Amount:** Up to \$500
Criteria: Upcoming junior or senior in the School of Business Administration, service to the College, favorable academic standing, and financial need.
Contact: Dean, School of Business Administration

Career Services

CHARLES BARGERSTOCK MEMORIAL FUND

- Amount:** \$500 (per semester)
Criteria: Graduate students enrolled in the counseling, human services and guidance program. Available for internship ten hours weekly in Career Services Office
Contact: Career Services Office, Department of Counseling, Human Services and Guidance, or Graduate Studies Office

Chemistry

SOKOL GRADUATE FELLOWSHIP IN CHEMISTRY

- Amount:** \$10,000
Criteria: Senior chemistry major at MSC who will be pursuing the doctorate in chemistry or a closely allied field at an approved graduate school; academic excellence; potential for success in doctoral studies and research.
Contact: Chairperson, Chemistry Department

Economics

J.S. GANG SCHOLARSHIP

- Amount:** Varies
Criteria: To provide incentive to outstanding students in the field of economics or political science who remain at Montclair State College for their upper division work. Criteria in order of priority are academic excellence and financial need.
Contact: Office of Development and External Relations

English

MARY BONDON SCHOLARSHIP AWARD

- Amount:** \$1,000
Criteria: Qualified MSC English Department graduate student pursuing a career in the teaching profession in area of English Literature.
Contact: Chairperson, English Department, or English Graduate Program coordinator

LAWRENCE H. CONRAD MEMORIAL SCHOLARSHIP

- Amount:** Varies
Criteria: MSC graduate, pursuing graduate degree in American Literature or Creative Writing at the College. Selection based on value of thesis proposal and financial need.
Contact: Dr. Morris G. McGee, English Department

French

FRENCH DEPARTMENT SCHOLARSHIP FOR GRADUATE STUDY

- Amount:** \$500 (\$250 per semester)
Criteria: Financial need and merit.
Contact: Chairperson, French Department

Geography

MILSTEAD AWARD FOR EXCELLENCE IN GEOGRAPHY

- Amount:** Approximately \$150
Criteria: Junior major in environmental, urban and geographic studies with high academic standing; minimum 12 hours in major-shows future promise as a professional geographer.
Contact: Dr. Harbans Singh, Environmental, Urban and Geographic Studies Department.

German/Slavic

OVERSEAS NEIGHBORS EXCHANGE SCHOLARSHIP

- Amount:** 28,000 Austrian Schillings (about \$1700.), plus room, health insurance and 20-day pass on Austrian National Railway.
Criteria: Undergraduate student fluent in German, ability to do university work. Decision made by interview committee.
Contact: Chairperson, German/Slavic Department. Apply during early spring semester.

Graduate Studies

HAROLD C. BOHN FELLOWSHIP

- Amount:** Varies
Criteria: Senior who shows promise in any academic discipline and presents a bonafide plan for graduate study.
Contact: Office of Development and External Relations.

PHI DELTA KAPPA SCHOLARSHIP

- Amount:** Varies. Usually two awards covering cost of one graduate course.
Criteria: Matriculated student in education master's degree program.
Contact: Dean, School of Professional Studies

SIMONE PICARD ASSISTANCE FUND

- Amount:** Varies
Criteria: Student enrolled in a master's degree or other post-baccalaureate program at Montclair State College. Preference will be given to applicants preparing for careers in teaching or related educational areas. Under circumstances deemed exceptional by the Committee; partial assistance may be granted to baccalaureate degree students who have completed at least 60 semester hours of work of which 24 semester hours had been completed at Montclair State College.
Contact: Dr. Bertha B. Quintana, Anthropology Department

ERCELL I. WATSON/WILLIAM A. CUFF AWARD

- Amount:** \$100
Criteria: Educator who is matriculated in, or graduate of, a master's degree program in the School of Professional Studies.
Contact: Dean, School of Professional Studies

Health Professions

PANZER TRUST INCENTIVE SCHOLARSHIP

- Amount: \$200
Criteria: Health major who has been accepted for graduate work at a college or university.
Contact: Chairperson, Department of Physical Education, Recreation and Leisure Studies

Hispanic Students

NORTH WARD CENTER SCHOLARSHIP

- Amount: \$500 (2 awards)
Criteria: MSC students from the North Ward Center's Hispanic Community.
Contact: Director of Development and External Relations

History

JULIAN J. JAFFE MEMORIAL AWARD

- Amount: \$75 - \$100
Criteria: Undergraduate student who has shown distinction in history and a "concern for the truth about the past."
Contact: Chairperson, History Department

WILLIAM McLEAN SCHOLARSHIP

- Amount: \$250 - \$500 (junior or senior year)
Criteria: Outstanding junior-year history major who has demonstrated appreciation of the comprehensiveness of historical study and the interrelatedness of history, the social sciences and the humanities. A minimum average of 3.00 in history and an overall average of at least 2.67 are required.
Contact: Chairperson, History Department

GARY RICHARD TAMIRIAN MEMORIAL SCHOLARSHIP

- Amount: Varies
Criteria: Outstanding junior or senior history or political science major with a 3.5 or better cumulative grade point average. Demonstration of service to community, committed to humanitarian endeavors.
Contact: Dr. Peter Macaluso, History Department

Home Economics

ESSEX COUNTY HOME ECONOMICS EXTENSION COUNCIL SCHOLARSHIP

- Amount: \$200
Criteria: Junior student; high academic standing; financial need; professional potential; resident of Essex County.
Contact: Chairperson, Home Economics Department

ESSEX/HUDSON HOME ECONOMICS ASSOCIATION SCHOLARSHIP

- Amount: \$200
Criteria: Junior student; high academic standing; professional potential; financial need; Essex or Hudson county resident.
Contact: Chairperson, Home Economics Department

FASHION STUDIES AWARD

- Amount: \$100
Criteria: Fashion studies or consumer affairs major with clothing and textiles, interior design, household equipment and housing concentration; high academic standing; participation in college and/or community activities; professional potential.
Contact: Chairperson, Home Economics Department

KATHARINE B. HALL ALUMNI AWARD

- Amount: \$100
Criteria: Junior who is a member of the MSCHEA, has a B or better average, and is outstanding in social and professional activities.
Contact: Chairperson, Home Economics Department

MONTCLAIR STATE COLLEGE HOME ECONOMICS ASSOCIATION SCHOLARSHIP

- Amount: \$100 or more
Criteria: Junior or senior standing; high academic standing; professional potential as demonstrated in professional/community activities; financial need; active in MSC Home Economics Association.
Contact: Chairperson, Home Economics Department

NEW JERSEY HOME ECONOMICS ASSOCIATION SCHOLARSHIP

- Amount: \$200
Criteria: Sophomore or junior student with a B or better average-active participation in MSCHEA.
Contact: Chairperson, Home Economics Department

Juniors and Seniors

ALUMNI ASSOCIATION SCHOLARSHIP (Includes the Dortch/Dickson Scholarship)

- Amount: \$1,000 (22 scholarships)
Criteria: Service to the campus; good academic standing; juniors and seniors; financial need.
Contact: Alumni House (applications available in January-deadline March 1st for following academic year)

ALUMNI ENDOWMENT SCHOLARSHIP

- Amount: \$250 to \$1,000
Criteria: Good academic standing (i.e., minimum cumulative grade point average of 3.0) and financial need.
Contact: Dean of Students

NEW JERSEY BELL TELEPHONE COMPANY SCHOLARSHIP

- Amount: To be determined—two scholarships
Criteria: One junior student—one senior student. One male student—one female student. 3.50 average or better. Leadership and service to the College and community (awarded in late fall or early spring).
Contact: Director of Financial Aid

Mathematics

MAX A. SOBEL FELLOWSHIP

- Amount: Amount and frequency varies.
Criteria: Graduate student in mathematics education; nominated by mathematics education faculty.
Contact: Chairperson, Mathematics and Computer Science Department

JOHN C. STONE FUND

- Amount: \$400—may vary
Criteria: Recommendation of Mathematics and Computer Science Department faculty with chairperson's approval—mathematics or computer science major.
Contact: Chairperson, Mathematics and Computer Science Department

Media

EMANJ GRADUATE STUDY SCHOLARSHIP IN EDUCATIONAL MEDIA

- Amount: \$500 (two scholarships)
Criteria: Graduate media student, New Jersey
Contact: Associate Professor of Media and Technology

EMMA FANTONE MEDIA GRANT

- Amount: Varies (provides for attendance at media conference in media field)
Criteria: Student interested in making media a career.
Contact: David S. Fogg, Media Center

Merit Scholarships

ALUMNI ASSOCIATION INCENTIVE SCHOLARSHIP

- Amount: \$1,000 (5 scholarships, non-renewable)
Criteria: Incoming full-time freshman; top 5% of his/her high school class; minimum combined SAT score of 1,000, record of school/community involvement; recommended by high school counselor.
Contact: Admissions office

GEORGE G. KING MEMORIAL AWARD

- Amount: \$100
Criteria: Outstanding contribution in community service, i.e. through community agencies.
Contact: Dean, School of Professional Studies

**THE PHYLLIS LEBOFF ENDOWMENT FUND
IN HONOR OF HER HUSBAND,
GERALD A. LEBOFF**

Amount: Varies
Criteria: Talented and gifted undergraduate and graduate students.
Contact: Office of Development and External Relations

**HARRY S. TRUMAN SCHOLARSHIP—
GOVERNMENT SERVICE LEADERSHIP
DEVELOPMENT**

Amount: Varies (maximum \$5,000 a year for up to 4 years)
Criteria: A merit scholarship awarded at the end of sophomore year to a student anticipating government service. Merit basis.
Contact: Dr. Grosvenor Rust, Educational Leadership Dept.

**MARY A. WHALEY
MEMORIAL SCHOLARSHIP**

Amount: Varies
Criteria: Incoming freshman to Montclair State College: gifted, middle income background; those who do not qualify or take advantage of financial aid; or to supplement these aids for those who do.
Contact: Office of Development and External Relations

Modern Language

**MARGARET B. HOLTZ FUND FOR
STUDENT EXCHANGE**

Amount: \$200—\$1,000
Criteria: Student working in the field of modern language outside the U.S. and whose candidacy has approval of members of the Margaret B. Holtz Board of Trustees.
Contact: Dr. David Kelly, of Classics or Office of Development and External Relations

Music

**LARRY A. FRANK MUSIC
SCHOLARSHIP**

Amount: Varies
Criteria: Music student who shows promise as a music educator, music performer, music therapist, music composer, theorist or historian.
Contact: Chairperson, Music Department

HOWE SCHOLARSHIP

Amount: Varies
Criteria: Promise of ability and interest—restricted to student of the organ.
Contact: Chairperson, Music Department

EDNA McEACHERN MUSIC FUND

Amount: Varies
Criteria: Financial need, musicianship and contribution to the department.
Contact: Chairperson, Music Department

**THE CHARLES G. MUNIER
MEMORIAL SCHOLARSHIP**

Amount: Varies
Criteria: A deserving piano student—preferably a junior recommended by faculty in the Music Department.
Contact: Chairperson, Music Department

Physical Education

PAUL P. BOGATKO SCHOLARSHIP

Amount: Varies
Criteria: To provide incentive to a student in good standing and financial need in the field of physical education who is a graduate of East Side High School, Newark, N.J.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

**MARGARET C. BROWN SCHOLARSHIP
(Donated by Robert Weston, '47)**

Amount: \$150
Criteria: Sophomore physical education major with highest cumulative average who reflects some of Dr. Brown's professional ideals through leadership, service or participation in professional physical education activities on or off campus (i.e., conferences, workshops, conventions).
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

JOSEPH PAUL CERES SCHOLARSHIP

Amount: \$100
Criteria: Outstanding sophomore or junior woman gymnast with exceptional ability and leadership in gymnastics.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

NICHOLAS CICCONE SCHOLARSHIP

Amount: \$200
Criteria: Junior physical education major with skill in motivating older adults to keep fit through movement activities.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

SUE FULLER MEMORIAL SCHOLARSHIP

Amount: \$500 approximately
Criteria: Junior woman in physical education—outstanding contributions through service to athletics (i.e. manager, publicity, statistician, etc.).
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

GERALD A. GARAFOLA SCHOLARSHIP

Amount: \$150
Criteria: Physical education sophomore who has made distinguished contributions and shown leadership in department activities, must have cumulative average of 2.80 or better.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

A.J. GORTON SCHOLARSHIP

Amount: \$200
Criteria: Junior maintaining a continuous satisfactory level of performing at a high level of skill in physical education activities.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

**DOUGLAS GREULICH MEMORIAL SCHOLARSHIP
(Presented by Delta Chapter of Phi Epsilon Kappa Fraternity)**

Amount: \$50
Criteria: Student who participates in some phase of the intercollegiate athletic program, has involvement in community and professional programs and exhibits high scholastic achievement (target 3.00 cumulative average).
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

DEAN MARTINO MEMORIAL SCHOLARSHIP

Amount: \$100 Bond
Criteria: Junior physical education major who demonstrates a specific quality of Dean, as well as a willingness of the student to give time to others.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

**JOSEPH NERENBERG SCHOLARSHIP
(presented by Old Times Athletes)**

Amount: \$100
Criteria: Freshman physical education major with highest scholastic record who, through participation in athletics, best represents sportsmanship as well as good scholarship.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

**PANZER STUDENT ASSOCIATION
ADAPTED PHYSICAL EDUCATION AWARDS**

Amount: Varies
Criteria: Students who demonstrate exceptional service and qualities of leadership, understanding and creativity while fulfilling practicum assignments in the adapted area.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

PANZER STUDENT SERVICE AWARD

Amount: \$50 Bond
Criteria: Student in good academic standing, who has provided outstanding leadership and service to the Panzer Student Association
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

PANZER TRUST FUND

(3 incentive scholarships)

- Amount:** \$200
Criteria: Freshmen entering Montclair State College in the fall. Three scholarships will be attainable:
1. Physical Education major
2. Recreation and Leisure Studies major
3. Health Careers major
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department—for #1 and #2
Chairperson, Health Professions Department for #3

PANZER TRUST INCENTIVE SCHOLARSHIP

- Amount:** \$200
Criteria: For the recreation major who has been accepted for graduate work at a college or university.

PANZER ALUMNI SCHOLARSHIP

- Amount:** \$200
Criteria: Freshman physical education student with highest scholastic average and evidence of professional competence.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

ELVERA DE MUTH PERKINS SCHOLARSHIP

- Amount:** \$200
Criteria: Freshman Physical Education major who gives evidence of promise for making positive contributions to the field of physical education; financial need.
Contact: Chairperson, Department of Physical Education, Recreation, and Leisure Studies

PIII EPSILON KAPPA AWARD, DELTA CHAPTER

- Amount:** \$50
Criteria: Recreation major who has shown constructive leadership in student activities and has a cumulative grade point average of at least 3.00.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

ELYSIA PHILLIP SCHOLARSHIP

- Amount:** Varies
Criteria: A capable student in need of aid to continue his/her education in the Panzer Department of Physical Education. Evidence of need required.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

DR. RICHARD W. TEWS AWARD

- Amount:** \$50
Criteria: Contribution to physical education through services in the Panzer Student Association; cumulative grade point average of 2.75 or more.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

THOMAS THOMAS SCHOLARSHIP

- Amount:** \$100 each
Criteria: Two physical education junior students who have shown particular interest and skill in working with individuals possessing development disabilities.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

DR. HAZEL M. WACKER AWARD

- Amount:** \$50
Criteria: For a student who contributes to physical education through service in the Panzer Student Association, and who has a cumulative average of 2.75 or more.
Contact: Chairperson, Physical Education, Recreation, and Leisure Studies Department

Political Science

J. S. GANG SCHOLARSHIP

- Amount:** Varies
Criteria: To provide incentive to outstanding students in the fields of economics or political science who remain at Montclair State College for their upper division work. Criteria in order of priority are to have excelled academically and to be in financial need.
Contact: Office of Development and External Relations

Psychology

WILLIAM DORTCH, JR. SCHOLARSHIP

- Amount:** \$700
Criteria: Entering Freshman with high school grade of C or better, financial need; appreciation of Christian ethic; potential contribution to field of human development; also matriculated students who meet these criteria.
Contact: Black Student Cooperative Union or Psychology Department

ORPHA M. LUTZ LOAN FUND

- Amount:** Varies
Criteria: Financial loan to Montclair State College student majoring in psychology.
Contact: Chairperson, Psychology Department

JEROME M. SEIDMAN AWARD FOR EXCELLENCE IN PSYCHOLOGY

- Amount:** \$100 each
Criteria: The man and woman graduating psychology majors with the highest cumulative averages. In the event of a tie, selection based on service to school and community. Awarded annually in May.
Contact: Chairperson, Psychology Department

Second Careers

RALPH P. LASALLE SCHOLARSHIP

- Amount:** \$100
Criteria: Part-time Montclair State College student enrolled in a degree program—50 years of age and older—awarded in the spring and fall.
Contact: Second Careers Program

Spanish/Italian

TERESA DEESCORIZA SCHOLARSHIP, SARA PRIETO SCHOLARSHIP

- Amount:** Varies (two scholarships)
Criteria: Merit—sophomore standing, minimum 12 credits in Spanish at time of application, extracurricular activities at Montclair State College, community services, special honors, financial need.
Contact: Spanish and Italian Department

ITALIAN CLUB SCHOLARSHIP

- Amount:** Varies
Criteria: Interest in Italian culture or language, to further education here or abroad; must have good scholastic average; letter of recommendation; and some financial need.
Contact: Spanish and Italian Department or Italian Club

SARA PRIETO SCHOLARSHIP

- Amount:** Varies
Criteria: Merit—Sophomore standing, minimum 12 credits in Spanish at time of application, extracurricular achievement or MSC, community service, special honors, financial need. Specifically for study abroad.
Contact: Spanish/Italian Department

Speech and Theatre

THE DANCE SCHOLARSHIP

- Amount:** Varies
Criteria: Outstanding dance student chosen on basis of potential, contribution and talent.
Contact: Chairperson, Speech and Theatre Department

THE JOSEPH F. BELLA THEATRE AWARD

- Amount:** Varies
Criteria: Outstanding B.F.A. technical major chosen on basis of potential, contribution and promise of talent.
Contact: Chairperson, Speech and Theatre Department

MALCOM FAIRFIELD FUND

- Amount:** Varies
Criteria: Financial support for special student and faculty activities beyond normal College budgeting. Student pursuing independent study in theatre—apply by submitting a proposal for amount of money.
Contact: Chairperson, Speech and Theatre Department

DENNIS K. McDONALD AWARD IN THEATRE

Amount: \$100

Criteria: Theatre graduate or undergraduate (junior or senior)—Performance quality, professional potential, evidence of continued development, 3.00 in theatre courses.

Contact: Chairperson, Speech and Theatre Department

DENNIS K. McDONALD MEMORIAL SCHOLARSHIP

Amount: \$300

Criteria: Freshman student pursuing B.F.A. in theatre—audition required—academic competence. Based on admission audition.

Contact: Chairperson, Speech and Theatre Department

Student Teaching

RUTH LEWIN ENDOWMENT FUND

Amount: Varies (2 or 3 awards annually)

Criteria: To be used specifically for helping students in teacher education, who need financial assistance; no other requirements stipulated.

Contact: Dean, School of Professional Studies

**THE J. THOMAS FLAGG OUTSTANDING
STUDENT TEACHER AWARD**

Amount: \$100

Criteria: Senior completing student teaching and nominated by faculty member.

Contact: Dean, School of Professional Studies

**BERGEN COUNTY RETIRED EDUCATORS
ASS'N. SCHOLARSHIP**

Amount: \$500 (2 awards annually)

Criteria: One sophomore and one junior student, full-time students, 3.0 GPA and potential teacher; preference given to Bergen County, N.J. residents.

Contact: Director of Financial Aid



ADMINISTRATION AND FACULTY

COLLEGE BOARD OF TRUSTEES

MURRAY L. COLE, Chairperson
ROBERT BIRNBAUM, Vice Chairperson
LILLIAM VALDES-DIAZ, Secretary
DONALD E. WALTERS, Ex Officio
LUIS C. AGUERO
ROBERT ALTMAN
WILLIAM L. MUCKELROY
BORDEN R. PUTNAM
LINDA STAMATO
PHILIP H. THAYER, JR.
DONNA MEADE, Alumni Representative
KATHLEEN S. WILKINS, Faculty Representative
DENNIS MUDRICK, Student Representative

OFFICERS OF THE COLLEGE

DONALD E. WALTERS, J.D., President
ROLAND GARRETT, Ph.D., Vice President for Academic Affairs
WILLIAM H. GRIFFITH, M.S., Vice President for Administration and Finance
JEAN M. ARMSTRONG, Ph.D., Vice President for Student Affairs

ACADEMIC DEANS

SURESH A. DESAI, Dean, Ph.D., School of Business Administration
DONALD A. MATTRAN, Dean, M.Mus., School of Fine and Performing Arts
PHILIP S. COHEN, Dean, Ph.D., School of Humanities and Social Sciences
RICHARD A. LYNDE, Dean, Ph.D., School of Mathematical and Natural Sciences
NICHOLAS M. MICHELLI, Dean, Ed.D., School of Professional Studies

PRESIDENT'S OFFICE STAFF

President
DONALD E. WALTERS, J.D.
Vice Presidents
JEAN M. ARMSTRONG, Ph.D., Vice President for Student Affairs
ROLAND GARRETT, Ph.D., Vice President for Academic Affairs
WILLIAM H. GRIFFITH, M.S., Vice President for Administration and Finance

Assistants to the President

CYNTHIA L. BARNES, B.A.
LISE GREENE, M.A., Board of Trustees
ANITA WALTERS, L.L.B., Director of Equal Opportunity/Affirmative Action

Alumni Affairs

SUSAN E. MARKI, B.A., Director

Development and External Relations

GRAYDON A. TUNSTALL, JR., Ph.D., Director

Public Relations

PATRICIA K. NIEDER, B.J., Director

ACADEMIC AFFAIRS: Roland Garrett, Ph.D., Vice President for Academic Affairs

Gregory L. Waters, Ph.D., Associate Vice President for Academic Affairs
Jesse J. Young, M.A., Assistant to Vice President for Academic Affairs

Academic Advising

Carl Snipes, Ed.D., Director

Basic Skills

Carl Snipes, Ed.D., Director of Special Sessions and Research

Center for Continuing Education

Ray J. Ast, M.A., Administrative Director

Center for Legal Studies

Marilyn Frankenthaler, Ph.D., J.D., Director

Cooperative Education

Freyda Lazarus, M.A., Director

Educational Opportunity Fund

Yvonne Burton, M.A., Director

Graduate Studies

Stephen Dobish, Ed.D., Associate Director

Grants Administration

Ray J. Ast, M.A., Administrator

Health Careers Program

Rosie A. Noble, M.S., Director

Institute for the Advancement of Philosophy for Children

Matthew Lipman, Ph.D., Director

Intra-Collegiate Academic Programs

Curtis Jackson, Ed.D., Director

Library Services

Blanche W. Haller, B.L.S., B.A., Director

Media Center

Robert R. Ruezinsky, M.A., Director

New Jersey School of Conservation

John J. Kirk, Ph.D., Director

Psychoeducational Center

Antoinette Spiotta, M.A., Director

Second Careers Program

Alicia P. Savage, Ed.D., Director

Student Teaching and Placement

Beverly Q. McHugh, M.A., Director

Student Tutorial Program

Geraldine Barlow, M.A., Director

Summer Sessions and Special Programs

John H. Leffler, Ed.D., Director

Weekend College

John H. Sanz, M.S., Director

ADMINISTRATION AND FINANCE:

William H. Griffith, M.S., Vice President for Administration and Finance

Nancy Carver, B.A., Assistant to Vice President for Administration and Finance

Budget and Fiscal Planning

Charles W. Moore, M.B.A., Director

Bursar

Vil F. Maristela, B.A., C.P.A.

Campus Police, Security and Safety

Jayne Rich, B.S., Chief

Computer Center

M. Lynn Truesdell, Director, Information Management Systems

Faculty-Student Cooperative Association, Inc.

Jeffrey A. Shapiro, M.G.A., Chief Executive Officer

Institutional Planning

Jerome R. Quinn, P.E., Director

Institutional Research

René Gimbrère, Ph.D., Director

Intercollegiate Athletics

William Dioguardi, M.S., Director, Athletics

Maintenance

Joseph E. McGinty, Engineer in Charge

Office Support Services

Kevin Carlin, M.B.A., Director

Personnel Services

Richard R. Davis, M.A., Director

Purchasing

Regina Rudenstein, B.A., Senior Buyer

STUDENT AFFAIRS: Jean M. Armstrong, Ph.D., Vice President for Student Affairs
Edward C. Martin, Ed.D., Dean of Students
James E. Harris, M.A., Assistant Dean of Students

Admissions

Alan L. Buechler, Ed.D., Director

Career Services

Eileen Bruck, M.A., Director

Financial Aid

Randall W. Richards III, Ed.D., Director

Health Center

Lillian Rosenberg, M.D., College Physician

International Students

James E. Harris, M.A., Director

Intramurals and Leisure-Time Activities

McKinley Boston, M.A., Director

Psychological Services

Susan J. Herman, Ph.D., Director

Registrar

Marshall A. Butler, M.A.

Residence Life

Raymond M. Stover, Jr., Ed.D., Director

Student Activities

Thomas F. Stepnowski, M.A., Director

Veterans' Services

Kenneth J. Key, Assistant

Women's Center

Huberta Alcaro, M.S., Director

ACCOUNTING, LAW, AND TAXATION

FRANK J. AQUILINO, M.B.A., B.B.A., St. John's University; C.P.A., State of New York

THOMAS E. CONK, M.B.A., Fairleigh Dickinson University; B.B.A., Iona College; C.P.A., State of New York

IRENE K. DOUMA, Ph.D., Baruch College, CUNY; M.B.A., Rutgers • The State University; B.S., Fairleigh Dickinson University; C.P.A., State of New Jersey

JAMES E. MARTINI, M.S., B.S., Bryant College of Business Administration; C.P.A., State of New Jersey

LEO J. McMENIMEN, Ph.D., M.S., B.S., Pennsylvania State University; C.P.A., States of New Jersey and New York

PHYLLIS L. MIRCHIN, M.B.A., New York University; B.S., William Paterson College

MICHAEL O'GARA, J.D., Brooklyn Law School; B.A., St. Peter's College

LEE PRIMIANO, M.B.A., Rutgers • The State University; B.A., Montclair State College; C.P.A., State of New Jersey

ARNOLD SCHANCUPP, L.L.M., New York University; J.D., Brooklyn Law School; B.B.A., CCNY

DOROTHY L. STEELE, J.D., Brooklyn Law School; M.B.A., Pace University; B.S., Wagner College; C.P.A., State of New York

JAMES G. YANG, M.B.A., New York University; M.S., Utah State University; B.A., National Taiwan University; C.P.A., State of Colorado; C.M.A.

ANTHROPOLOGY

JAMES BOYLAN, Ph.D., M.A., B.A., Wayne State University

KENNETH H. BROOK, Ph.D., CUNY; M.A., B.A., Hunter College
 DOROTHY K. CINQUEMANI, Ph.D., Columbia University; B.A., University of New Mexico
 MARCHA P. FLINT, Ph.D., CUNY; M.A., New York University; B.A., Hunter College
 RICHARD W. FRANKE, Ph.D., B.A., Harvard University
 HARRIET M. KLEIN, Ph.D., Columbia University; B.A., University of Chicago
 BERTHA B. QUINTANA, Ed.D., M.A., New York University; B.A., Upsala College
 MAURIE SACKS, Ph.D., Columbia University; B.A., Queens College

BIOLOGY

LARRY D. CRIBBEN, Ph.D., Ohio State University; M.N.S., University of Oklahoma; B.S., Rio Grande College
 ANN MARIE DI LORENZO, Ph.D., M.S., New York University; B.A., Trinity College
 STEPHEN J. KOEPP, Ph.D., M.A., North Texas State University; B.A., Messiah College
 JOHN K. KORKY, Ph.D., University of Nebraska; M.S., University of Texas at El Paso; B.S., Wagner College
 S. MARIE KUHNEN, Ph.D., New York University; M.A., Columbia University; B.A., Montclair State College
 LEE H. LEE, Ph.D., CUNY; M.S., Hunter College; B.S., National Taiwan University
 BONNIE K. LUSTIGMAN, Ph.D., Fordham University; M.S., Fairleigh-Dickinson University; B.A., Hunter College
 JON MICHAEL McCORMICK, Ph.D., M.S., Oregon State University; B.S., Portland State University
 ANNA C. PAI, Ph.D., Albert Einstein College of Medicine; M.A., Bryn Mawr College; B.A., Sweet Briar College
 JUDITH A. SHILLCOCK, Ph.D., Rutgers • The State University; M.A., Montclair State College; B.S., Seton Hall University
 PAUL P. SHUBECK, Ph.D., Rutgers • The State University; M.A., Montclair State College; B.S., Seton Hall University
 EILEEN A. SNYDER, Ph.D., M.S. New York University; B.S., Carnegie Mellon University
 ALVIN A. STEIN, Ph.D., CUNY; M.S., B.S., Brooklyn College

BUSINESS EDUCATION AND OFFICE SYSTEMS ADMINISTRATION

STEPHEN CYRUS, Ed.D., Temple University; M.A., B.A., Montclair State College
 SHEILA GERSH, M.S., Hunter College; B.B.A., CCNY (Baruch)
 DOLORES GIOFFRE, Ed.D., Rutgers • The State University; M.A., B.S., Trenton State College
 KATHLEEN M. GOELZ, Ed.D., Temple University; M.Ed., West Chester State University; B.S., Temple University
 JOSEPH C. HECHT, Ed.D., M.A., New York University; B.S., Long Island University
 ROSEMARIE McCAULEY, Ed.D., Fairleigh Dickinson University; M.A., Seton Hall University; B.A., Trenton State College
 JOHN McGINNIS, Ed.D., New York University; M.A., B.S., Montclair State College
 ALBERT D. ROSSETTI, Ed.D., Rutgers • The State University; M.A., Montclair State College; B.S., Trenton State College
 PALMINA A. UZZOLINO, M.A., Catholic University of America; B.S., New York University

CHEMISTRY

HANI Y. AWADALLAH, M.S., Bowling Green State University; B.S., Cairo University
 JOSEPH D. BECKER, Ed.D., M.A., Columbia University; J.D., Seton Hall University; M.Ed., University of Delaware; B.A., Harvard University
 PAMELA J. DELANEY, Ph.D., Georgetown University; B.Sc., University of Capetown
 ROLAND R. FLYNN, M.A., Brown University; B.A., Montclair State College
 IRWIN H. GAWLEY, JR., Ed.D., Columbia University; M.A., B.A., Montclair State College
 BRIAN D. HUMPHREY, Ph.D., Princeton University; B.S., St. Joseph's College
 JOHN L. ISIDOR, Ph.D., University of North Carolina; B.S., Stonehill College
 MARC L. KASNER, Ph.D., Purdue University; B.S., California State University at Long Beach
 RICHARD A. LYNDE, Ph.D., Iowa State University; A.B., Hamilton College
 NANCY S. PAISLEY, Ph.D., M.A., University of Illinois; B.A., University of Minnesota
 ALBERT ZABADY, M.S., University of New Hampshire; M.A., B.A., Montclair State College

CLASSICS

DAVID H. KELLY, Ph.D., M.A., University of Pennsylvania; B.A., Catholic University of America
 TIMOTHY T. RENNER, Ph.D., M.A., University of Michigan; B.A., Yale University

COMMUNICATION SCIENCES AND DISORDERS

JOSEPH S. ATTANASIO, Ph.D., New York University; M.A., B.A., Montclair State College
 ELAINE BARDEN, Ph.D., Columbia University; M.A., Seton Hall University; B.A., Douglass College
 GERARD CARACCILO, Ed.D., Teachers College, Columbia University; M.A., B.A., Montclair State College
 ELAINE FINE, Ed.D., Teachers College, Columbia University; M.A., CCNY; B.A., Queens College
 WARREN HEISS, Ed.D., Yeshiva University; M.A., Jersey City State College; B.S., Pennsylvania State University
 GILBERT LEIGHT, Ph.D., M.A., Columbia University; B.S., CCNY
 MICHAEL LINDENMAN, Ph.D., New York University; M.A., Teachers College, Columbia University; B.A., Trenton State College
 NAOMI SCHIFF-MYERS, Ph.D., M.A., Teachers College, Columbia University; B.A., Barnard College
 HAROLD SCHOLL, Ed.D., Teachers College, Columbia University; M.B.A., B.B.A., CCNY
 TERRY D. SCHON, Ph.D., Syracuse University; M.A., Hunter College; B.S., Bowling Green State University
 EDWARD SHULMAN, Ph.D., University of Iowa; M.S., University of Minnesota; B.A., Western Michigan University
 GERALD WOLF, Ph.D., New York University; M.A., University of Pittsburgh; B.S., CCNY

COUNSELING, HUMAN SERVICES AND GUIDANCE

MARIE FRAZEE-BALDASSARRE, Ed.D., Columbia University; M.A., B.A., Montclair State College
 DONALD B. GREGG, Ed.D., Lehigh University; M.A., B.A., Montclair State College

RICHARD A. GREY, Ed.D., Fordham University; M.A., Montclair State College; B.S., Winston-Salem Teachers College
 LAWRENCE B. HAMEL, Ph.D., St. John's University; M.A., Boston University; B.A., St. John's University
 ARLENE KING, Ph.D., Fordham University; M.A., Montclair State College; B.A., New York University
 THOMAS MILLARD, Ed.D., Fairleigh Dickinson University; M.A., New York University; M.S., The New York School of Social Work, Columbia University; B.A., Rutgers • The State University
 EDWIN MILLS, M.Ed., Florida Atlantic University; B.A., Bob Jones University
 EIDOLA J. TALLEY, Ph.D., Boston University; M.A., University of Rhode Island; B.A., University of Texas
 TETE H. TETENS, M.A., Columbia University; B.S., Union College
 CONSTANCE WALLER, Ed.D., M.A., Columbia University; B.S., Indiana University

CURRICULUM AND TEACHING

JOHN BARELL, Ed.D., Columbia University; M.A., CUNY; A.B., Harvard University
 CATHERINE A. BECKER, Ph.D., New York University; M.A., B.A., Montclair State College
 SUSIE B. BOYCE, Ed.D., Rutgers • The State University; M.A.T., Tulane University; B.A., Florida State University
 WANDALYN ENIX, Ed.D., Temple University; M.A., Lehigh University; B.A., Howard University
 JUDITH MacDONALD, Ed.D., M.A., Columbia University; B.A., Brown University
 NICHOLAS M. MICHELLI, Ed.D., Columbia University; M.A., New York University; B.A., Montclair State College
 ROBERT A. PINES, Ed.D., University of Miami; M.S., Rutgers • The State University; B.S., Monmouth College
 ANITA E. UHIA, Ed.D., Rutgers • The State University; M.A., Montclair State College; B.A., Fairleigh Dickinson University

ECONOMICS

SURESH DESAI, Ph.D., M.A., University of California-Los Angeles; Ph.D., L.L.B., M.A., B.A., Gujarat University (India)
 HAROLD FLINT, Ph.D., M.A., Southern Illinois University; B.A., Western Kentucky University
 SOLOMON HONIG, Ph.D., M.A., Columbia University; B.A., CCNY
 HUMPHREY HUSBANDS, M.A., Hunter College; B.B.A., Baruch College
 PHILLIP LeBEL, Ph.D., M.A., Boston University; A.B., Washington College
 KAMROUZ PIROUZ, Ph.D., University of Hawaii; M.B.A., Rutgers • The State University; B.S., University of Wisconsin (Oshkosh)
 GLENVILLE RAWLINS, Ph.D., New York University; M.A., Howard University; B.A., University of West Indies
 MARGARET REILLY-PETRONE, Ph.D., M.A., Fordham University; B.A., Immaculate Heart College
 FARAHMAND REZVANI, Ph.D., CUNY; M.A., Roosevelt University; B.S., Pahlavi University (Iran)
 FRANCES SCHER, M.A., Columbia University; B.A., Smith College
 SERPIL SISIK-LEVEEN, Ph.D., New York University; M.A., Southern Illinois University; B.A., University of Ankara (Turkey)
 ZAMAN ZAMANIAN, Ph.D., Indiana University; M.A., St. Mary's University; B.A., National University of Iran

EDUCATIONAL FOUNDATIONS

GEORGE BERNSTEIN, Ed.D., M.A., Teachers College, Columbia University; B.A., Rutgers • The State University
MARY E. BREDEMEIER, Ed.D., Rutgers • The State University; M.A., Columbia University; B.S., Madison College
FRANCESCO CORDASCO, Ed.D., M.A., New York University; B.A., Columbia University
MYRNA DANZIG, M.A.T., Radcliffe College; B.A., Cornell University
THUNDER F. HAAS, Ed.D., Rutgers • The State University; M.A., B.S., Seton Hall University
ANN MARGARET SHARP, Ed.D., University of Massachusetts; M.A., Catholic University of America; B.A., College of New Rochelle

EDUCATIONAL LEADERSHIP

LAURENCE BELLAGAMBA, Ed.D., Columbia University; M.A., B.S., New York University
JOSEPH F. BRUNNER, Ed.D., University of Massachusetts; M.A., B.A., Jersey City State College
ANNE C. CASTENS, Ed.D., Rutgers • The State University; M.A., B.A., Montclair State College
JULIA DUTKA, Ed.D., Ed.M., M.A., Teachers College, Columbia University; B.A., Hong Kong University
GEORGE D. HEISS, Ed.D., Rutgers • The State University; Ed.M., University of Maryland; B.A., Brooklyn College
TINA JACOBOWITZ, Ph.D., New York University; M.A., University of Wisconsin; B.A., Brooklyn College
GERHARD LANG, Ph.D., Columbia University; M.A., B.S., CCNY
FRANK P. MERLO, Ed.D., Rutgers • The State University; M.A., B.A., Montclair State College
WENDY G. OXMAN, Ph.D., Fordham University; M.A., Yeshiva University; B.A., Brandeis University
GROSVENOR RUST, Ph.D., A.M., University of Chicago; A.B., Wheaton College
MARIA E. SCHANTZ, Ed.D., Columbia University; M.A., Montclair State College; B.S., Jersey City State College
DIANA J. STONE, Ph.D., Fordham University; M.A., Montclair State College; B.A., Adelphi College
DONALD E. WALTERS, J.D., University of Maryland School of Law; A.B., Catholic University of America
DAVID E. WEISCHADLE, Ed.D., Ed.M., B.S., Rutgers • The State University

ENGLISH

SHAHLA ANAND, Ph.D., New York University; M.A., Agra University (India); M.A., Columbia University
JEANNINE A. BARRETT, Ph.D., M.A., New York University; B.A., Tennessee State University
MURIEL BECKER, M.L.S., Rutgers • The State University; M.A., Montclair State College; B.A., Hunter College
THOMAS BENEDIKTSSON, Ph.D., University of Washington; B.A., Trinity University
BHARATI MUKHERJEE BLAISE, Ph.D., M.F.A., University of Iowa; M.A., University of Baroda; B.A., University of Calcutta
BUTLER E. BREWTON, Ph.D., Rutgers • The State University; M.A., Montclair State College; B.A., Benedict College
DANIEL BRONSON, Ph.D., University of Pennsylvania; A.B., Harvard University
JANET K. CUTLER, Ph.D., M.A., University of Illinois, Champaign-Urbana; B.A., The University of Chicago

WILLIAM C. DELL, M.A., B.A., New York University
DAVID W. D. DICKSON, Ph.D., M.A., Harvard University; L.H.D., B.A., Bowdoin College; L.H.D., Bloomfield College
WOLFGANG B. FLEISCHMANN, Ph.D., M.A., University of North Carolina; B.A., St. John's College
GROVER C. FURR, Ph.D., M.A., Princeton University; B.A., McGill University
ROBERT G. GORDON, M.A., B.A., Colgate University
MICHAEL F. GRIECO, M.A., Columbia University; B.A., Montclair State College
CLAIRE HEALEY, Ph.D., M.A., Columbia University; B.S., Boston University
BARRY D. JACOBS, Ph.D., M.A., Harvard University; B.A., DePauw University
RITA D. JACOBS, Ph.D., M.A., University of Pennsylvania; B.A., Queens College
LEE C. KHANNA, Ph.D., M.A., Columbia University; B.A., Denison University
NAOMI C. LIEBLER, Ph.D., M.A., SUNY at Stony Brook; B.A., CCNY
DEENA LINETT, Ed.D., Ed.M., Rutgers • The State University; A.B., Boston University
MORRIS G. MCGEE, Ed.D., M.A., New York University; B.A., Montclair State College
ALYCE SANDS MILLER, Ph.D., M.A., Pennsylvania State University; B.A., Hunter College
JAMES F. NASH, Ph.D., M.A., University of Virginia; B.A., LaSalle College
J. RAYMOND PAUL, M.A., Columbia University; B.A., Princeton University
GEORGE R. PETTY, JR., Ph.D., M.A., New York University; B.A., Princeton University
THEODORE PRICE, Ph.D., Rutgers • The State University; M.A., Columbia University; B.A., Kenyon College
MURRAY PROSKY, Ph.D., M.A., University of Wisconsin; B.A., New York University
SANFORD RADNER, Ed.D., M.A., Columbia University; B.A., Duke University
MORTON D. RICH, Ph.D., New York University; M.Ed., Rutgers • The State University; B.A., Cornell University
DOROTHY R. RUDY, M.A., Columbia University; B.A., Queens College
LAWRENCE SCHWARTZ, Ph.D., Rutgers • The State University; M.A., Stanford University; B.A., Newark College of Engineering
DOUGLAS M. SCHWEGEL, Ph.D., University of Minnesota; M.A., George Washington University; B.A., Lake Forest College
KEITH D. SLOCUM, Ph.D., M.A., University of Pennsylvania; B.A., Knox College
SHARON SPENCER, Ph.D., M.A., B.A., New York University
CAROLE B. STONE, Ph.D., Fordham University; M.A., Rutgers • The State University; B.A., New York University
DAVID M. STUEHLER, Ph.D., M.A., New York University; B.A., Rutgers • The State University
DOUGLAS TOMLINSON, M.A., New York University; B.A., York University (Canada)
GREGORY L. WATERS, Ph.D., M.A., Rutgers • The State University; A.B., Georgetown University

ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES

HOWARD R. BALLWANZ, M.S. Ed., B.S., Northern Illinois University
BERTRAND P. BOUCHER, M.A., B.A., Colorado University
SOPHIA G. HINSHALWOOD, Ph.D., Rutgers • The State University; M.A., University of Georgia; B.A., Central College

W. AUGUSTUS RENTSCH, Ph.D., University of Michigan; M.A., Montclair State College; B.A., Adrian College
DAVID K. ROBERTSON, Ph.D., M.S., Rutgers • The State University; B.A., University of Michigan
HARBANS SINGH, Ph.D., M.A., Rutgers • The State University; M.A., Punjab University (India); B.A., Government College (Rupar, India)
ROLF STERNBERG, Ph.D., Syracuse University; M.A., Clark University; B.A., Ursinus College
ROBERT W. TAYLOR, Ph.D., St. Louis University; B.A., Washington University
FINANCE AND QUANTITATIVE METHODS
NEMAT BAHMANI, Ph.D., M.S., University of Pennsylvania; M.S., Pahlavi University (Iran)
ARYEH BLUMBERG, Ph.D., A.M., A.B., University of Chicago
HARVEY BLUMBERG, Ph.D., CUNY; M.B.A., Baruch College; B.B.A., CCNY
CHUAN YU CHEN, Ph.D., New York University; M.S., University of Tokyo; M.A., Columbia University; B.S., National Taiwan University
ALAN J. OPPENHEIM, Ph.D., New York University; M.S., B.S., Polytechnical Institute of Brooklyn
IRA SOHN, Ph.D., M.A., New York University; B.A., Brooklyn College
DAVID YAMOAH, M.B.A., Rutgers • The State University; M.S., University of Ghana; B.S., University of Science and Technology (Ghana)

FINE ARTS

PETER G. BARNET, Ed.D., M.A., B.A., New York University
SUSAN BARRIS, Ed.D., Columbia University; M.A., Pratt Institute; B.A., Brooklyn College
TERRY BERKOWITZ, M.F.A., School of the Art Institute of Chicago; Fine Arts Diploma, School of Visual Arts
M. ANNE CHAPMAN, M.F.A., Cranbrook Academy of Art; B.F.A., Cleveland Institute of Art
CARMEN CICERO, B.S., Newark State College
JOHN CZERKOWICZ, M.F.A., Rutgers • The State University; M.A., B.F.A., University of New Mexico
LEON DELEEUEW, M.A., B.A., New York University
SUELLEN GLASHAUSSER, M.A., University of California; B.A., Manhattanville College
NANCY GOLDRING, M.A., New York University; B.A., Smith College
ABRAHAM KAMPE, Ph.D., M.A., New School for Social Research; B.S., New York University; Diploma, Art Teachers College, Tel Aviv (Israel)
ROBERT KIRSCHBAUM, M.F.A., Yale University; School of Art; B.A., University of Rochester
RICHARD KYLE, M.A., Teachers College, Columbia University; B.A., Paterson State College
PATRICIA LAY, M.F.A., Rochester Institute of Technology; B.S., Pratt Institute
CHARLES MARTENS, Ed.D., M.A., New York University; B.Sc. in Ed., Massachusetts College of Art
WILLIAM McCREATH, M.F.A., Cranbrook Academy of Art; B.F.A., University of Manitoba School of Art; Diploma, Teachers College, Dundee, Scotland
EILEEN MOHAMMED, M.A., Columbia University; B.S., North Carolina Agricultural and Technical State University
EVE OLITSKY, M.F.A., Columbia University; B.F.A., New York University

WENDY OXMAN-MICHELLI, Ph.D.,

Fordham University; A.B., Brandeis University

BETTY SCHLOSSMAN, Ph.D., M.A., Columbia University; B.A., Wellesley College

KLAUS SCHNITZER, M.F.A., Ohio University; B.A., SUNY at Albany

JONATHAN SILVER, M.A., B.S., Columbia University

MICHAEL SIPORIN, M.F.A., B.A., Southern Illinois University

WALTER SWALES, M.F.A., Cranbrook Academy of Art; B.A., Temple University

ALIDA WALSH, M.F.A., San Diego State University; B.S., Northwestern University

CAROL WESTFALL, M.F.A., Maryland Institute College of Art; B.F.A., Rhode Island School of Design

FRENCH

MAURICE CAGNON, Ph.D., University of Pennsylvania; M.A., Middlebury College; B.A., Providence College

ROBERT M. GLICK, Ph.D., B.A., University of Chicago; M.A., Middlebury College

HELENE KLIBBE, Ph.D., Syracuse University; Licence-ès-Lettres Université de Paris (Sorbonne)

LOUIS J.M. ROEDERER, Ph.D., New York University; Licence en Droit Université de Lyon

MADELEINE A. SERGENT, M.A., University of Colorado; Diploma de la Escuela Central de Idiomas, University of Madrid

LILLIAN SZKLARCZYK, Ph.D., University of Pennsylvania; M.A., Middlebury College; B.A., Hunter College

KAY S. WILKINS, Ph.D., B.A., University of Southampton (England)

GERMAN AND SLAVIC

CARL D. LINDBLOM, Ph.D., Rutgers • The State University; M.A., B.Mus., University of Rochester

JOHN V. MOORE, Ph.D., M.A., Princeton University; A.B., Harvard College

ERNESTINE SCHLANT, Ph.D., M.A., B.A., Emory University

CAROLINE SCIELZO, Ph.D., M.A., New York University; B.A., Barnard College

HEALTH PROFESSIONS

MARY-JO BELENSKI, Ed.M., Rutgers University; B.A., Fairleigh Dickinson University

RUTH C. BLANCHE, Ed.D., Columbia University; M.A., B.A., Seton Hall University; R.N., Monmouth Medical Center

ELIZABETH J. CLARK, Ph.D., M.A., University of North Carolina; M.P.H., M.S.W., B.A.S.W., University of Pittsburgh

MICHAEL S. DAVIDSON, Ed.D., M.Ed., M.A., Columbia University; B.A., Brown University

CAROLE DONOVAN, Ed.D., Columbia University; M.A., B.A., Jersey City State College

JOAN FICKE, Ed.D., M.A., New York University; B.A., Montclair State College

HARRY H. HOITSMA, Ed.D., M.A., B.S., New York University

MARK A. KAELIN, Ed.D., Teachers College, Columbia University; M.A., B.A., Montclair State College

CATHERINE J. PASKERT, Ph.D., University of Utah; M.A., Columbia University; B.S., Panzer College

JOHN G. REDD, Ph.D., M.A., University of Michigan; B.S., Ohio State University

REZA B. SHAHROKH, Ph.D., M.S., B.S., Southern Illinois University

HISTORY

RICHARD J. BARKER, Ph.D., M.A., Duke University; B.A., University of Rochester

ROBERT R. BECKWITH, Ph.D., M.A., Columbia University; B.A., Montclair State College

JOHN T. BELL, M.A., B.A., Montclair State College

GEORGE C. BERTHERTON, Ph.D., M.A., B.S., Columbia University

PHILIP S. COHEN, Ph.D., M.A., B.S., New York University; Degré Supérieur, Université de Paris

JAMES P. KEENEN III, Ed.D., Columbia University; M.A., B.A., Montclair State College

PETER F. MACALUSO, Ph.D., New York University; M.A., Seton Hall University; B.A., St. Bonaventure University

JOSEPH T. MOORE, Ed.D., B.S., Rutgers • The State University; M.A., Montclair State College

LOIS A. MORE, Ed.D., Columbia University; M.A., B.A., Montclair State College

J. KENNETH OLENIK, Ph.D., M.A., Cornell University; M.A., Seton Hall University; B.S.S.S., John Carroll University

PETER PASTOR, Ph.D., M.A., New York University; B.S., CCNY

JOEL SCHWARTZ, Ph.D., M.A., B.A., University of Chicago

AMY GILMAN SREBNICK, Ph.D., SUNY at Stony Brook; M.A., B.A., University of Wisconsin

LESLIE E. WILSON, M.A., Hunter College; M.P.S., B.A., Cornell University

L. SHARON WYATT, Ph.D., University of Florida; M.A., B.A., University of New Mexico

LOUIS B. ZIMMER, Ph.D., M.A., New York University; B.S., SUNY at Cortland

HOME ECONOMICS

HUBERTA D. ALCARO, M.S., Purdue University; B.A., Western Washington State College

KATHLEEN BAUER, Ph.D., M.S., Rutgers • The State University; B.S., Northern Illinois University

JOAN D. BERNSTEIN, Ed.D., M.A., Columbia University; B.A., Queens College

CAROL BYRD-BREDBENNER, Ph.D., M.S., Pennsylvania State University; M.S., B.S., Florida State University

MARTHA CONKLIN, M.S., B.S., University of Missouri

M. ELAINE FLINT, Ph.D., Pennsylvania State University; M.S., Southern Illinois University; B.A., Western Kentucky University

LOIS J. GUTHRIE, M.S., Purdue University; B.S., West Virginia University

JUANITA HUDSON, M.A., Columbia University; B.S., University of Illinois

VIJAY JAISINGHANI, Ph.D., M.A., Iowa State University; B.S., B.Ed., Delhi University (India)

BARBARA LITWORNIA, Ph.D., M.S., Rutgers • The State University; B.A., Douglass College

MARGARET R. MUKHERJEE, Ph.D., Rutgers • The State University; M.A., Michigan State University; B.S., Cornell University

N. CATHERINE NORRIS, Ed.D., New York University; M.S., B.S., University of Tennessee

MIRIAM G. SILVER, Ed.D., New York University; M.A., Bank Street College of Education; B.A., Douglass College

JOHN SPECCHIO, M.S., B.S., Rutgers • The State University

KAREN TODD, Ph.D., University of Iowa; M.S., B.S., North Texas State University

INDUSTRIAL STUDIES

ROBERT BROWNING, Ed.D., M.A., Columbia University; B.S., SUNY at Oswego

ROBERT F. DORNER, Ed.D., New York University; M.A., Montclair State College; B.S., Trenton State College

HARRISON GOODALL, Ed.D., New York University; M.A., Ball State University; B.S., Trenton State College

MARTIN T. GREENWALD, Ed.D., New York University; M.S., CCNY; B.S., B.A., New York University

DEBORAH HEALY, M.F.A., Syracuse University; M.A., Montclair State College; B.A., College of New Rochelle

T. ROBERT MARTENS, M.A., University of Northern Colorado

GEORGE A. OLSEN, Ed.D., New York University; M.A., Montclair State College; B.S., Newark State College

WINFIELD L. PARSONS IV, Ph.D., M.A., Texas A & M University; B.S., California State University of Pennsylvania

FRED D. SCHUMM, Ed.D., New York University; M.A., Montclair State College; B.S., Newark State College

VINCENT J. WALENCIK, Ed.D., Rutgers • The State University; M.A., B.S., Montclair State College

RICHARD WOLFSON, M.A., Ohio State University; B.S., CCNY.

LEGAL STUDIES

DIERDRE M. BARZ, J.D., Rutgers-Newark School of Law; M.A., Columbia University; B.A., Sarah Lawrence College

MARILYN FRANKENTHALER, Ph.D., Rutgers • The State University; J.D., Seton Hall University; M.A., Hunter College; B.A., CCNY.

BARBARA A. NAGLE, J.D., Seton Hill University; B.A., Montclair State College

AVRAM B. SEGALL, J.D., New York Law School; B.S., University of Wisconsin

DONALD E. WALTERS, J.D., University of Maryland School of Law, A.B., Catholic University of America

LINGUISTICS

ALICE F. FREED, Ph.D., M.A., B.A., University of Pennsylvania

ROBERT L. MILLER, Ph.D., M.A., University of Michigan; B.A., Wayne State University

MILTON S. SEEGMILLER, Ph.D., M.A., New York University; B.A., Brooklyn College

JANET SUSI, M.A., Columbia University; M.A., Middlebury College; B.A., Douglass College

MANAGEMENT

EDWARD D. BEWAYO, D.P.A., SUNY at Albany; M.S., M.A., University of Wisconsin; B.A., University of Delhi (India)

CLAUDETTE L. ESSOR, M.B.A., B.A., Howard University

GERALD A. GLUCK, Ph.D., M.S., M.A., Cornell University; B.A., CCNY

JOSEPH A. GRECO, Ph.D., M.B.A., New York University; B.B.A., St. John's University; C.P.A., State of New York

EILEEN KAPLAN, Ph.D., Rutgers • The State University; M.A., New School for Social Research; B.A., Syracuse University

BYUNG K. MIN, Ph.D., Pennsylvania State University; M.B.A., SUNY at Albany; B.A., Seoul National University (Korea)

CARL A. RODRIGUES, D.P.A., Nova University; M.S.M., B.A., Florida International University

JOHN TURNER, Ph.D., CUNY; M.B.A., CCNY, B.S., Fairleigh Dickinson University
ELMER E. WATERS, Ph.D., CUNY; M.B.A., Rutgers • The State University; B.S., Columbia University
ELAINE G. WRONG, Ph.D., M.A., B.A., New York University

MARKETING

LEE COBB, Ph.D., CUNY; M.A., B.S., Columbia University
CECIL COMMAILLE, M.B.A., B.S., Wagner College
RALPH A. DIPIETRO, Ph.D., New York University; M.B.A., B.B.A., Baruch College
M. NADEEM FIROZ, Ph.D., North Texas State University; M.B.A., University of Dallas; M. Com., B Com., University of Peshawar (Pakistan)
ALLEN J. SIMONSON, J.D., A.B., Rutgers • The State University; M.B.A., Seton Hall University
VICKI J. WULWICK, Ph.D., CUNY; M.B.A., Baruch College; B.S., Columbia University

MATHEMATICS AND COMPUTER SCIENCE

PHILIP H. ANDERSON, M.S., Purdue University; B.S., M.A., University of Notre Dame
MODRIS O. BAUM, Ph.D., M.S., New York University; B.A., Rutgers • The State University
EDWARD A. BOYNO, Ph.D., M.S., Rutgers • The State University; B.A., St. Peter's College
CARL E. BREDLAU, Ph.D., M.S., B.A., Rutgers • The State University
THOMAS F. CARROLL, M.A., Rutgers • The State University; M.A.T., B.S., Tulane University
ANDREW DEMETROPOULOS, Ph.D., Stevens Institute of Technology; M.S., M.A., New York University; B.A., Rutgers • The State University
THOMAS F. DEVLIN, Ph.D., M.A., Catholic University of America; B.A., LaSalle College
GAIL M. GALLITANO, Ed.D., Columbia University; M.S., Fairleigh Dickinson University; B.S., Monmouth College
MOHAMMAD R. GANGEEMOGHADAM, M.S., Rutgers • The State University; M.A., Montclair State College; B.A., Tehran Business College
ROBERT GARFUNKEL, M.A., Montclair State College; B.A., Rutgers • The State University
CARL GOTTSCHALL, Ph.D., J.D., New York University; M.S., Yeshiva University; B.A., CUNY
GEORGE H. GUGEL, M.S., SUNY at Oneonta; B.A., Hartwick College
HACI-MURAT HUBEY, Ph.D., University of New Hampshire; M.S., B.S., New Jersey Institute of Technology
HUBERT A. JOHNSON, Ed.D., Ed.M., Columbia University; M.S., B.S., Central Connecticut University
KENNETH KALMANSON, Ph.D., CUNY; B.S., Brooklyn College
KAILA KATZ, Ph.D., M.A., New York University; M.S., Simmons College; B.A., Brandeis University
PATRICIA KENSCHRAFT, Ph.D., M.A., University of Pennsylvania; A.B., Swarthmore College
WILLIAM G. KOELLNER, M.A., B.A., Montclair State College
MARCOANTONIO LACATENA, M.A., Montclair State College; B.S., Fairleigh Dickinson University

AUDREY J. LEEF, Ed.D., Rutgers • The State University; M.S., Stevens Institute of Technology; B.A., Montclair State College
EVAN M. MALETSKY, Ph.D., New York University; M.A., B.A., Montclair State College
GIDEON NETTLER, M.S., Polytechnic Institute of Boston; B.S., Rensselaer Polytechnic Institute
WILLIAM R. PARZYNSKI, Ph.D., M.S., B.S., Stevens Institute of Technology
HELEN MARCUS ROBERTS, Ph.D., Johns Hopkins University; B.S., CCNY
FRANK J. SERVEDIO, Ph.D., M.S., Columbia University; B.S., Iona College
MAX A. SOBEL, Ph.D., M.A., Columbia University; B.S., Montclair State College
JOHN G. STEVENS, Ph.D., New York University; B.S., Indiana University
RUTH C. STEWART, Ed.D., M.A., B.A., Rutgers • The State University; M.A., Columbia University
JAMES H. STODDARD, Ph.D., B.S., University of Michigan
WALTER R. WESTPHAL, M.A., University of Illinois; M.A., Columbia University; B.S., SUNY at Buffalo
THOMAS E. WILLIAMSON, JR., Ph.D., Rutgers • The State University; B.S., University of Maryland
DOROTHY R. WOLFF, Ph.D., New York University; M.A., B.A., Montclair State College
KENNETH C. WOLFF, Ph.D., New York University; M.A., Pennsylvania State University; B.A., Montclair State College
PHILIP W. ZIPSE, Ph.D., Rutgers • The State University; M.S., University of Akron; B.S., DePaul University

MUSIC

EDMUND BATTERSBY, M.Mus., B.Mus., Juilliard School of Music
DONALD BUTTERFIELD, Diploma, Juilliard School of Music
LISA DELORENZO, M.M.E., Indiana University; B.S., West Chester State College
JOHN L. GIRT, M.F.A., B.F.A., Carnegie Mellon University
KAREN GOODMAN, M.S., Hunter College; B.A., University of Wisconsin
TING HO, Ph.D., University of Rochester; M.A., Kent State University; B.A., Bucknell University
LEON HYMAN, M.S., Juilliard School of Music; B.A., Queens College
JEROME L. LANDSMAN, D.M.A., M.Mus., University of Southern California; B.Mus., University of Rochester
DONALD A. MATTRAN, M.Mus., B.Mus., The University of Michigan
DONALD M. MINTZ, Ph.D., B.A., Cornell University; M.F.A., Princeton University
MARIO F. ONEGLIA, Ed.D., M.A., Professional Diploma, Columbia University; B.Mus., Manhattan School of Music
EDWARD PIERSON, B.A., Roosevelt University
MURRAY PRESENT, B.Mus., Michigan State University; Diploma, Juilliard School of Music
DAVID RANDOLPH, M.A., Columbia University; B.S., CCNY
OSCAR RAVINA, Diploma, Leningrad Conservatory of Music; Diploma, Bruckner Conservatory of Music; Diploma, Academy of Music in Salzburg, Diploma, Academy of Music in Vienna
RUTH RENDLEMAN, Ed.D., Columbia University; M.Mus., Manhattan School of Music; B.Mus., North Carolina School of Arts

JACK SACHER, Ed.D., M.A., Columbia University; B.A., Middlebury College
ROBERT STEPHENS, Ph.D., Indiana University; Ed.M., M.A., Columbia University; B.S., Savannah State College
BARBARA L. WHEELER, Ph.D., Fordham University; M.Mus., Florida State University; B.Mus., Hastings College
THOMAS WILT, M.Mus., B.Mus., University of Rochester
CHAIM ZEMACH, Diploma, Cologne University (Germany); Diploma, Accademia Chigiana (Italy)

NEW JERSEY SCHOOL OF CONSERVATION

REGINA M. KELLY, M.A., B.A., Trenton State College
JOHN J. KIRK, Ph.D., M.A., University of Michigan; B.S., Boston University
JAMES K. MERRITT, M.A., Glassboro State College; B.A., Trenton State College
JERRY T. SCHIERLOH, M.S., Purdue University; B.S., Western Michigan University
DEBORAH A. SIMMONS, Ph.D., University of Michigan; M.S., Humboldt State University; B.A., University of California, Berkeley

PHILOSOPHY AND RELIGION

KENNETH AMAN, Ph.D., Yale University; M.A., Fordham University; M.Th., B.D., Maryknoll Seminary; B.A., Maryknoll College
DAVID BENFIELD, Ph.D., M.A., Brown University; B.A., St. John's College
THOMAS BRIDGES, Ph.D., M.A., Columbia University; B.A., New York University
EVA FLEISCHNER, Ph.D., Marquette University; M.A., University of Notre Dame; B.A., Radcliffe College
ROLAND GARRETT, Ph.D., M.A., B.A., Columbia University
STEPHEN JOHNSON, Ph.D., M.Phil., Yale University; M.A., Marquette University; B.A., Spring Hill College
MICHAEL S. KOGAN, Ph.D., B.A., Syracuse University
MATTHEW LIPMAN, Ph.D., B.S., Columbia University
ADELE MCCOLLUM, Ph.D., M.A., B.S., Syracuse University
DIANA MEYERS, Ph.D., M.A., CUNY; B.A., University of Chicago
ROBERT F. STREETMAN, Ph.D., Drew University; S.T.M., Pacific School of Religion; B.D., Duke Divinity School; B.A., Millsaps College

PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES

DANIEL ALEJANDRO, M.A., Columbia University; M.S., Southern Connecticut State College; B.A., University of Puerto Rico
REE K. ARNOLD, Ed.D., Columbia University; M.Ed., Miami University; B.S., Valparaiso University
MARILYN CHAMBERLIN, M.A., Columbia University; B.S., Panzer College
VIRGINIA A. CROSSMAN, M.A., Columbia University; B.S., Boston University
DOMENICA DESIDERIOSCIOLI, M.S., B.S., Brooklyn College
JERRY G. DICKASON, Ph.D., M.A., New York University; B.S., Indiana University
HENRY M. FERRIS, M.A., New York University; B.A., Syracuse University
ROB GILBERT, Ph.D., B.A., University of Massachusetts
LEONARD K. LUCENKO, Ph.D., University of Utah; M.A., New York University; B.A., Temple University

JACK B. SAMUELS, Ed.D., M.Ed., Temple University; B.S., SUNY at Cortland
CARLA E. SAYERS TABOURNE, Ph.D., New York University; M.S., Herbert H. Lehman College; B.A., Bard College
JOAN SCHLEEDE, Ed.D., M.A., B.S., New York University

SUSAN SCHWAGER, Ed.D., M.A., Columbia University; B.A., Hunter College
TIMOTHY F. SULLIVAN, M.S., Ithaca College; B.S., SUNY at Cortland
JOSEPH TOTH, Ed.D., Colorado State College; M.Ed., Kent State University; B.S., University of Akron
SUSAN A. WESTON, Ed.D., Rutgers • The State University; M.A., Montclair State College; B.S., Russell Sage College

PHYSICS/GEOSCIENCE

MARY A. DERENGOWSKI-STEIN, Ph.D., Columbia University; B.A., College of Our Lady of the Elms
IMAD E. HAMDAN, M.A.T., B.S., Fairleigh Dickinson University
CHARLES L. HAMILTON, Ph.D., Virginia Polytechnic Institute; M.A., Dartmouth College; B.A., Lehigh University
RICHARD H. HODSON, M.A., Montclair State College; B.S., Trenton State College
FRANK S. KELLAND, M.A., Clark University; B.Ed., Keene State College
LUDWIK KOWALSKI, Ph.D., University of Paris; M.S., B.S., Polytechnic Institute of Warsaw
STEPHEN W. KOWALSKI, Ph.D., M.A., New York University; B.S., Fairleigh Dickinson University
TZU-CHIANG MA, Ph.D., University of North Carolina; B.S., National Cheng Kung University
BEN MINOR, M.E.E., B.S., CCNY; I.E., Columbia University; P.E., State of New Jersey
ROBERT C. RAMSDALL, M.A., Princeton University; M.S., Rutgers • The State University; B.A., Lehigh University
JOHN V. THIRUVATHUKAL, Ph.D., Oregon State University; M.S., Michigan State University; B.S., St. Louis University
MARY L. WEST, Ph.D., Columbia University; M.S., B.A., Cornell University

POLITICAL SCIENCE

OPOKU AGYEMAN, Ph.D., York University (Toronto); M.A., Makerere, Uganda; B.A., University of Ghana
HARRY BALFE II, J.D., Catholic University of America; M.A., American University; B.A., Trinity College
WILLIAM M. BATKAY, Ph.D., M.A., Columbia University; B.A., Fordham University
WILLIAM S. BERLIN, Ph.D., Rutgers • The State University; M.A., George Washington University; B.A., Brooklyn College
EDWARD W. JOHNSON, Ph.D., New York University; M.A., New School for Social Research; B.A., Rutgers • The State University
LUCINDA LONG, Ph.D., M.A., Johns Hopkins University; B.A., Mary Washington College
GEORGE T. MENAKE, Ph.D., New York University; M.A., St. John's University; B.A., St. Peter's College
GEORGE N. ZILBERGELD, Ph.D., Miami University; M.A., San Francisco State University; B.A., Rutgers • The State University

PSYCHOLOGY

EDWARD ARONOW, Ph.D., M.A., Fordham University; B.A., Queens College

IRWIN J. BADIN, Ph.D., New York University; B.A., Long Island University
MARTIN BROWN, Ed.D., Rutgers • The State University; M.A., Columbia University; B.S., CUNY
LEONARD J. BUCHNER, Ph.D., Columbia University; M.A., B.A., Montclair State College
JOAN CHEU, Ph.D., M.A., Teachers College, Columbia University; B.A., National Taiwan University
RICHARD D. DRAPER, Ph.D., M.S., Purdue University; B.A., Kalamazoo College
WALTER R. DURYEA, Ph.D., Florida State University; M.A., University of Connecticut; B.A., Rutgers • The State University

KATHERINE W. ELLISON, Ph.D., CUNY; B.A., Agnes Scott College
MARK J. FRIEDMAN, Ph.D., M.S., Purdue University; B.A., Colgate University
STEPHEN M. FRIEDMAN, Ph.D., M.A., University of California; B.A., College of William and Mary
MARGARITA GARCIA, Ph.D., M.A., B.S., Columbia University
ROBERT GOODKIN, Ph.D., Florida State University; B.A., Allegheny College
HERBERT J. HAUER, Ph.D., New York University; M.A., Columbia University; B.A., New York University

EDWARD J. HAUPT, Ph.D., New York University; B.A.E., University of Minnesota
THERESE HERMAN-SISSONS, Ph.D., M.A., New School for Social Research; B.A., New York University

MARK A. KOPPEL, Ph.D., M.A., Northwestern University; B.A., Columbia University

MOIRA K. LEMAY, Ph.D., M.S., Pennsylvania State University; B.S., Queens College

PAUL J. LOCHER, Ph.D., M.S., Temple University; B.S. Ed., Kutztown State College

AGNES O'CONNELL, Ph.D., M.S., Rutgers • The State University; A.B., Douglass College

SHARON OLSON, Ph.D., M.A., New School for Social Research; B.A., DePaul University

MICHAEL PENDERGRASS, M.A., Wayne State University; B.A., Dickinson College
THOMAS BIDDLE PERERA, Ph.D., M.A., A.B., Columbia University

GEORGE S. ROTTER, Ph.D., New York University; B.A., Brooklyn College
SAUNDRA, Ph.D., M.A., University of Maryland; B.A., Point Park College
JEROLD S. SCHWARTZ, Ph.D., M.A., Yeshiva University; B.A., University of Pennsylvania

JOHN SEYMOUR, Ph.D., M.A., New York University; B.S., William Paterson College

ROLAND J. SIITER, Ph.D., Purdue University; M.A., Xavier University; B.A., Northwestern University

JOAN SILVERSTEIN, Ph.D., New York University; M.S., University of Wisconsin; B.S., CCNY

IRA R. SUGARMAN, Ph.D., M.S., Columbia University; B.A., New York University

DAVID J. TOWNSEND, Ph.D., M.A., Wayne State University; B.A., University of Michigan

RHODA K. UNGER, Ph.D., M.A., Harvard University; B.S., Brooklyn College

DANIEL E. WILLIAMS, Ph.D., M.S., St. John's University; B.A., Seton Hall University

PETER F. WORMS, Ed.D., Rutgers • The State University; M.S., B.B.A., CCNY

SOCIOLOGY

BARBARA CHASIN, Ph.D., University of Iowa; B.A., CCNY

CANDACE CLARK, Ph.D., Columbia University; A.M., University of Chicago; B.A., Oklahoma State University

DAVID DODD, D. Crim., M. Crim., University of California, Berkeley; Barrister at Law, Grey's Inn; M.A., B.A., Oxford University (England)

PETER FREUND, Ph.D., New School for Social Research; M.A., Queens College; B.A., University of Maryland

BENJAMIN HADIS, Ph.D., M.A., University of California at Los Angeles; Licenciatura, University of Buenos Aires

MARY HOLLEY, Ph.D., North Texas State University; M.A., Fisk University; B.A., Saint Augustine's College

JENNIFER HUNT, Ph.D., Graduate Center CUNY; B.A., Sarah Lawrence College

GILBERT KLAJMAN, M.A., Brandeis University; B.A., Brooklyn College

LAURA KRAMER, Ph.D., M.A., SUNY at Stony Brook; B.A., University of Michigan

JAY LIVINGSTON, Ph.D., Harvard University; B.A., Brandeis University

GEORGE MARTIN, Ph.D., M.A., University of Chicago; B.A., Vanderbilt University

MEREDITH MCGUIRE, Ph.D., M.A., New School for Social Research; B.A., Eckerd College

GILBERT ZICKLIN, Ph.D., M.A., University of California, Davis; B.A., Columbia University

SPANISH/ITALIAN

CLARA L. BARBEITO, *Doctor en Filosofía y Letras*, Havana University; Ph.D., New York University

ITALO BATTISTA, M.A., Rutgers • The State University; B.A., CCNY

VINCENZO Z. BOLLETTINO, Ph.D., M.A., Rutgers • The State University; B.A., City College, CUNY

JOANNE ENGELBERT, Ph.D., New York University; M.A., Middlebury College; B.A., Adelphi College

NORMAN H. FULTON, Ph.D., Licentiate University of Madrid; Ed.M., University of Rochester; B.A., Central Missouri State College

MARILYN FRANKENTHALER, Ph.D., Rutgers • The State University; J.D., Seton Hall University; M.A., Hunter College; B.A., CCNY

JOHN HWANG, Ph.D., M.A., University of Oregon; M.A., B.A., Stanford University

LINDA G. LEVINE, Ph.D., M.A., Harvard University; B.A., New York University

ROBERT J. MCCORMICK, Ph.D., CUNY; M.A., Queens College; B.A., St. John's University

ROSE S. MINC, Ph.D., M.A., Rutgers • The State University; B.A., Douglass College

PAOLO POSSIEDI, *Dottore lettere* University of Padua (Italy)

ANA M. RAMBALDO, Ph.D., M.A., New York University; B.A., Southern Methodist University

HENRY RICHARDS, M.A., B.A., Columbia University

JANET SUSI, M.A., Columbia University; M.A., Middlebury College; B.A., Douglass College

JOHN A. ZAHNER, Ph.D., M.A., University of Arizona; B.A., Toledo University

SPEECH AND THEATRE

DORIS B. BIANCHI, M.A., M.Ed., Columbia University; B.S., Syracuse University

WAYNE BOND, Ph.D., Southern Illinois University; M.A., West Virginia University; B.A., Alderson-Broadbush College

RAMON L. DELGADO, Ph.D., Southern Illinois University; M.F.A., Yale School of Drama; M.A., Dallas Theatre Center, Baylor University; B.A., Stetson University
 DANNIS B. EATON, M.A., Columbia University; B.A., Ball State University
 JOHN A. FIGOLA, M.F.A., Carnegie-Mellon University; B.S., California State University of Pennsylvania
 BRUCE GOODRICH, M.F.A., Carnegie-Mellon University; B.F.A., University of Wisconsin
 W. SCOTT MacCONNELL, M.A., Columbia University; B.A., Amherst College
 KARL R. MOLL, M.A., Pennsylvania State University; A.B., Westminster College
 GERALD LEE RATLIFF, Ph.D., Bowling Green State University; M.A., University of Cincinnati; B.A., Georgetown University
 LINDA J. ROBERTS, M.A., Columbia University; B.A., University of Bridgeport
 JEROME ROCKWOOD, Ph.D., New York University; M.A., Western Reserve University; B.A., Brooklyn College
 ANN G. SEIDLER, Ph.D., M.A., New York University; B.A., Smith College
 DONALD E. SOBOLIK, M.A., B.A., University of Nebraska
 CHRISTOPHER STASHEFF, Ph.D., University of Nebraska; M.A., B.A., University of Michigan
 SUZANNE M. TRAUTH, Ph.D., M.A., Bowling Green State University; B.S., University of Dayton
 HOWARD P. TRAVIS, Ph.D., M.A., B.A., University of Michigan
 THOMAS VEENENDALL, Ph.D., University of Denver; M.A., Western Michigan University; B.A., Michigan State University

INDEX

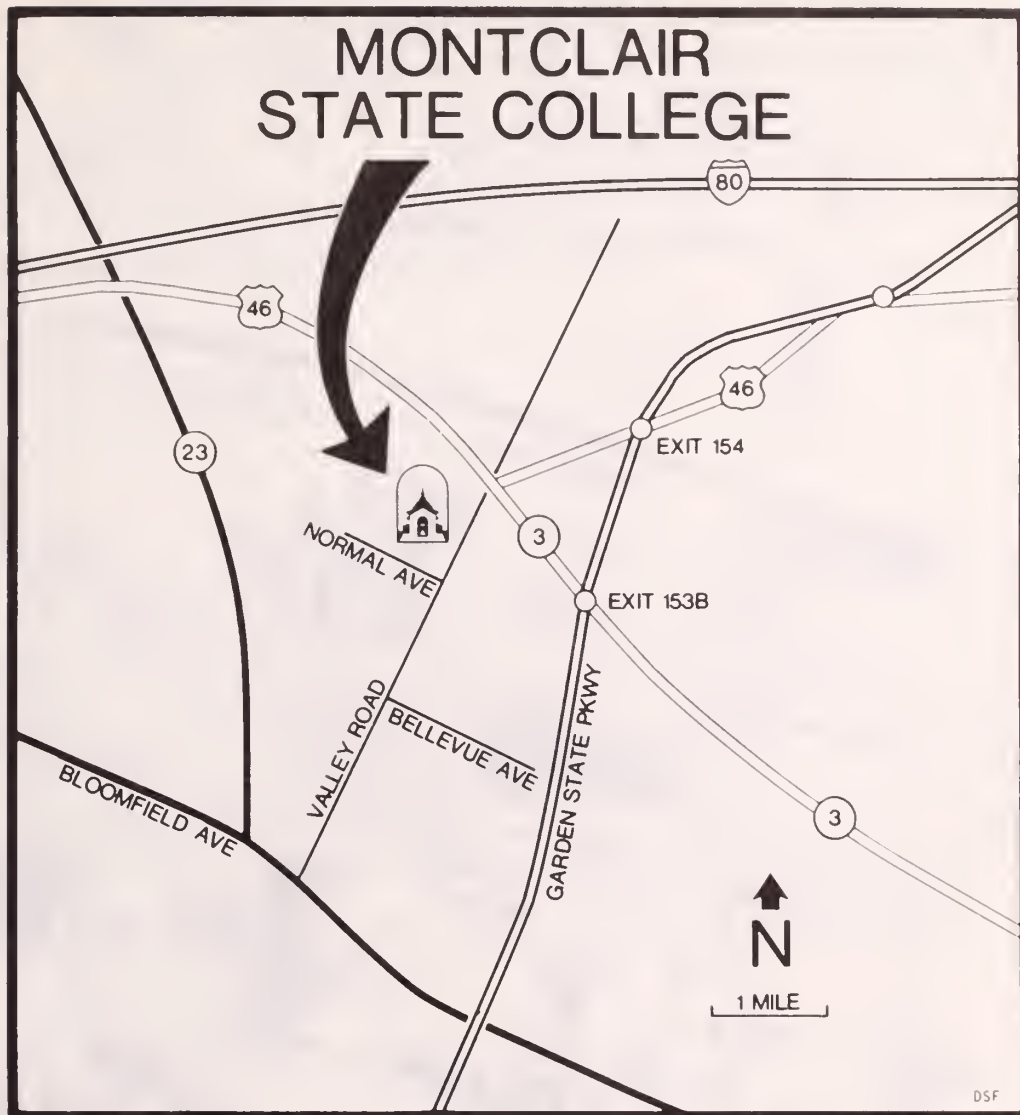
About the College	1	Departmental Codes, Legend of	28
Academic Calendar	iv	Dismissal	17
Academic Counseling	9, 15	Distributive Education and General	
Academic Policies and Procedures	14	Business Education	37
Accounting and General Business Education	28	Early Childhood Education	90
ACCOUNTING, LAW, AND TAXATION	28	ECONOMICS	52
Accreditation and Membership	3	Education	50
Acting/Directing	150, 151	EDUCATIONAL FOUNDATIONS	54
Activities, Student Affairs and	13	EDUCATIONAL LEADERSHIP	55
Administrative Officers	177	Educational Opportunity Fund	6, 10
ADMISSIONS	5	Employment on Campus	11
Advanced Placement	14	ENGLISH	57
Advisement	10	English as a Second Language, Teaching	98
Afro-American Studies	167	English for Speakers of Other	
Allied Health	84	Languages (ESOL)	7
Alumni Association	10	ENVIRONMENTAL, URBAN, AND	
ANTHROPOLOGY	31	GEOGRAPHIC STUDIES	62
Archaeology	168	Exemptions from Freshman English	16
Asian Studies	166	Expenses, Student	8
Athletics	11	Facilities and Resources	10
Attendance	14	Faculty	177
Audiology	47	Family and Child Studies	90
Audit Policy	14	Fashion Studies	90
Basic Skills	7, 9, 15, 22	Fees and Tuition	8
BIOLOGY	33	Film	57, 66, 168
Black Student Cooperative Union	13	Final Examinations	16
Board of Trustees	177	FINANCE AND QUANTITATIVE METHODS	64
Bookstore	11	FINANCIAL AID	9
Broadcasting	150, 151	Financial Support for the College	3
Business Administration, Accounting	30, 37	Fine and Performing Arts, School of	4
Business Administration,		FINE ARTS	66
Finance and Quantitative Methods	64	Foodservice Management	89, 90
Business Administration, Management	100	Foods and Nutrition	90
Business Administration, Marketing	102	Foreign Student Admission	6
Business Administration,		FRENCH	77
Office Systems Administration	37	Furlough	17
Business Administration,		General Education Requirements (B.A./B.S.)	19
Retail Merchandising Management	38	General Education Requirements (B.F.A./B.Mus.)	20
Business Administration, School of	4	General Humanities	160
BUSINESS EDUCATION AND OFFICE		GEOGRAPHY/URBAN STUDIES	62
SYSTEMS ADMINISTRATION	36	GEOSCIENCE AND PHYSICS	129
Calendar	iv	GERMAN AND SLAVIC	80
Campus Employment	11	Goals	4
Cancellation of Courses and Staffing	15	Grades and Standards	16
Career Services	11	Graduate Credit Courses (Undergraduate)	18
CHEMISTRY	41	Graduate Degree Programs	2, 50
CLASSICS	43	Graduation, Final Evaluation for	16
Class One Concerts	13	Graduation Honors	16
Class Standing	15	Greek	43-46
CLEP	15	Health Careers Program	169
College Honors Program	160	HEALTH PROFESSIONS	83
College Life Union Board	13	Health Services	11
COMMUNICATION SCIENCES AND		Hispanic Community Affairs	145
DISORDERS	47	HISTORY	86
Communication Theory and Practice	151, 152	History of the College	3
COMPUTER SCIENCE AND		HOME ECONOMICS	89
MATHEMATICS	103	Honors List	16
Computer Services Center	11	Housing	12
Concentrations	2	Human and Intercultural Relations	
CONSERVATION, NEW JERSEY SCHOOL OF	163	Requirement	24
Consumer Affairs	89	Human Services Minor	49
Continuing Education, Center for	11	Humanities and Social Sciences,	
Cooperative Education	9, 168	School of	4
Council on International and National Affairs	14	Human Relations Organization	14
Counseling, Academic	9, 10, 15	Identification Cards	11
COUNSELING, HUMAN SERVICES AND		Independent Study	16
GUIDANCE	48	Industrial Education and Technology	94
Counseling, Psychological	12	INDUSTRIAL STUDIES	94
Course Loads	15	International Studies	169
Course Overlap	15	Intra-Collegiate Academic Programs	9
Credit by Examination and Experience	15	ITALIAN AND SPANISH	144
Credit for Life Experience	15	Journalism	57
CURRICULUM AND TEACHING	50	La Campana	14
Dance Performance	151	Latin	43, 46
Degree Programs	2	Latin American Student Organization	14
Degree Requirements	19	Latin American Studies	166
		LAW, ACCOUNTING AND TAXATION	28
		Leave of Absence	17

Legal Studies, Center for	12, 161
Library	12
LINGUISTICS	98
Major Declaration	17
MANAGEMENT	100
MARKETING	102
Mathematical and Natural Sciences, School of	5
MATHEMATICS AND COMPUTER SCIENCE	103
Media and Technology in Education	55
Media Center	12
Minorities Culture Requirement	21
Montclaron	14
MUSIC	107
Music Therapy	107, 114
NEW JERSEY SCHOOL OF CONSERVATION	163
Office of Systems Administration	36, 37
Officers of the College	177
Panzer School Council	12
Paralegal Studies	161
Parking and Traffic	12
Part-time Admission	6
PHILOSOPHY/RELIGION	117
Physical Education and Health	121
PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES	119
Physical Science	41
PHYSICS/GEOSCIENCE	129
Plagiarism	17
Players	14
Police and Security	12
POLITICAL SCIENCE	133
Pre-Law Advisor	12
Pre-Law Studies	162
Probation	17
Professional Sequence for Teacher Certification	24, 50
Professional Studies, School of	5
Public Administration	134
Psychoeducational Center	12
Psychological Counseling	12
PSYCHOLOGY	136
QUANTITATIVE METHODS AND FINANCE	64
Quarterly	14
Reading	55
RECREATION AND LEISURE STUDIES	121
Refund and Withdrawal Policies	8
Registration	17
RELIGION/PHILOSOPHY	117
Religious Facilities and Programs	12
Repeated Courses	17
Requirements, Undergraduate Degree	19
Residence Halls	12
Residence Requirements	17
Resources and Facilities	10

Retail Merchandising and Management	38
Retention Standards	17
ROTC	169
Russian	80
SCHOLARSHIPS AND AWARDS	9, 172
Schools of the College	4
Second Baccalaureate Degree	6
Second Careers	7
Secretarial and General Business Education	37
SOCIOLOGY	141
SPANISH AND ITALIAN	144
Special Education	170
Special Programs	167
Special Tutorial Program (STP)	10
SPEECH AND THEATRE	150
Speech Pathology	47
Student Affairs and Activities	13
Student Affairs, Office of	13
Student Center	13
Student Government Association	13
Student Intermural and Leisure Council	14
Student Responsibility	18
Student Rights	18
Study Abroad	77
Summer Sessions	13
Suspension	18
Teacher Certification Requirements	24
TEACHING AND CURRICULUM	50
Television Center	13
THEATRE AND SPEECH	150
Therapeutic Recreation	122
Toxicology	164
Transcripts	18
Transcultural Studies	165
Transfer Admission Process	6
Transfer Credit	18
Tuition and Fees	8
Undergraduate Degree Programs	2
Undergraduate Degree Requirements	19
Undergraduate Teacher Education	50
Undergraduates in Graduate Programs	18
Upward Bound Project	10
URBAN STUDIES/GEOGRAPHY	62
Veterans' Credit	13, 18
Vocational-Technical Program	95
Weekend College	10
Winter Session	13
Withdrawal from Courses	18
Withdrawal from College	18
WMSC	14
Women's Center	13
Women's Studies Minor	170
Work Study Program	11
World Cultures	165
Writing Requirement, College	22



Directions to the Campus



BY CAR FROM:

Bloomfield Ave., Montclair: North on Valley Road (by fire department), 3.3 miles to Normal Ave. light, turn left.

Route 46 (East and West): Valley Road, Montclair exit (at Route 3 junction), south for approximately one mile to Normal Avenue light, turn right.

Route 3: Valley Road, Montclair exit (at Route 46 junction), south for approximately one mile to Normal Ave. light, turn right.

Garden State Parkway North: Exit 153B (left lane) to Route 3 West, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right.

Garden State Parkway South: Exit 154 to Route 46 West, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right.

New Jersey Turnpike: Exit 16W to Route 3, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right. Motorists traveling on the Turnpike South to Exit 11 may exit there to Garden State Parkway North.

Lincoln Tunnel: Follow to Rte. 3.

George Washington Bridge: Route 80 to Garden State Parkway South.

BY PUBLIC TRANSPORTATION FROM:

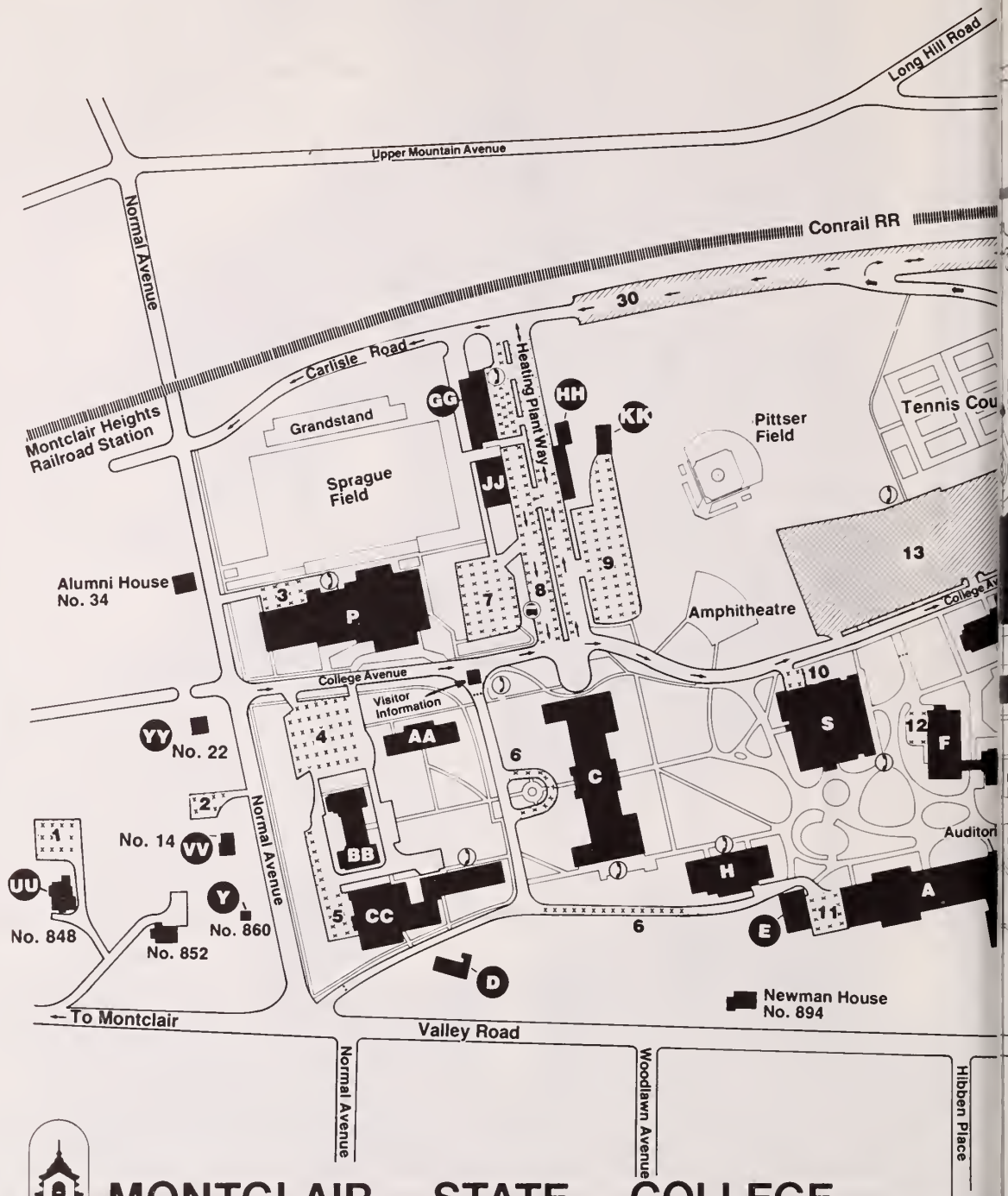
New York City (by bus): DeCamp Bus No. 66 leaves Platform 73, Port Authority Bus Terminal at half past the hour. Get off at Mt. Hebron and Valley Roads, turn right (north) on Valley and walk one long block to the Normal Avenue traffic light, then turn left to campus entrance.

New York City (by train): Take PATH service to Hoboken, transfer to Conrail, and get off at Montclair Heights Station at southwest corner of campus.

Newark: Transport of New Jersey Bus No. 60 originates at Bamberger's, Market and Washington Streets and terminates its run on campus. Every 17 minutes.

The Oranges: Trackless Transit Bus No. 64 originates at Veterans Administration Hospital, Tremont Avenue, East Orange, travels along main streets in the Oranges to Bloomfield Avenue, Montclair. Change to No. 60 at Montclair Center. Once an hour.

Paterson: Transport of New Jersey Bus No. 128 originates at Broadway Terminal, Paterson and goes to Bloomfield. Change to No. 60 at Bloomfield Center. Every 45 minutes.



MONTCLAIR STATE COLLEGE

PARKING

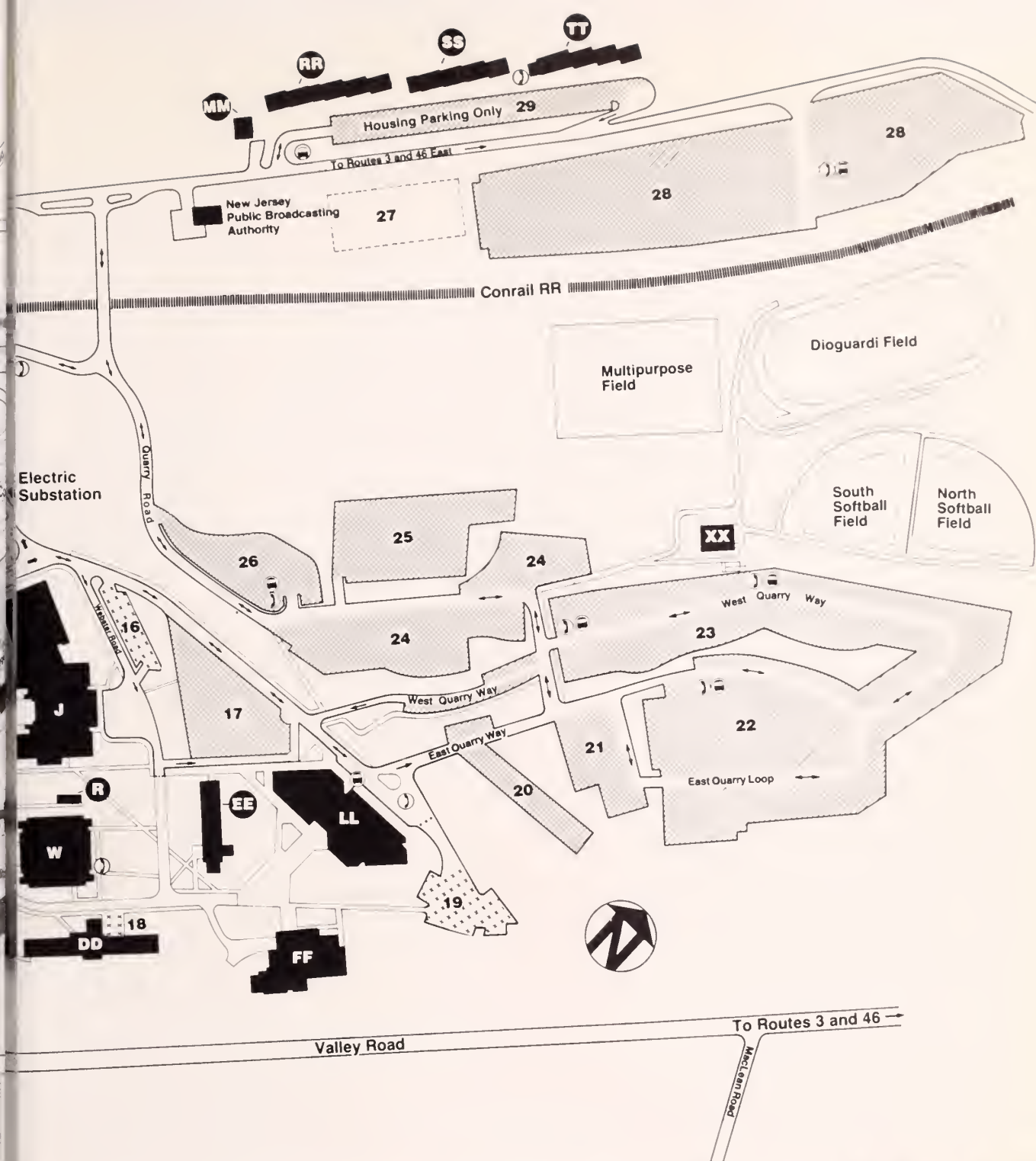
- 1 FACULTY and STAFF
- 2 FACULTY and STAFF
- 3 PHYSICAL EDUCATION and ATHLETIC DEPT.
- 4 FACULTY and STAFF
- 5 STUDENT HOUSING STAFF
- 6 VISITOR
- 7 FACULTY and STAFF
- 8 FACULTY and STAFF
- 9 FACULTY and STAFF (Compact Cars Only)
- 10 LIBRARY FACULTY and STAFF
- 11 FACULTY and STAFF
- 12 INDUSTRIAL ARTS DEPT. FACULTY and STAFF
- 13 STUDENT

- 14 FACULTY and STAFF
- 15 DISABLED
- 16 VISITOR
- 17 STUDENT
- 18 STUDENT HOUSING STAFF
- 19 STUDENT HOUSING STAFF
- 20 STUDENT
- 21 STUDENT
- 22 STUDENT
- 23 STUDENT
- 24 STUDENT
- 25 STUDENT
- 26 STUDENT
- 27 STUDENT

- 28
- 29
- 30

SYMBOL

- EMERGEN
- SHUTTLE



UPPER MONTCLAIR N.J.

TELEPHONE: 201-893-4000

BUILDINGS

A LIFE HALL
B MEMORIAL HALL
C FINE and PERFORMING ARTS
D COLLEGE HALL—ADMINISTRATION & ADMISSIONS
E GILBRETH HOUSE—PSYCHOLOGICAL SERVICES
F TEMPORARY CLASSROOM ANNEX
G FINLEY HALL
H PARTRIDGE HALL—HUMANITIES
J MOREHEAD HALL
K BUSINESS ADMINISTRATION
L STUDENT CENTER
M SPEECH BUILDING
N CALCIA FINE ARTS BUILDING
O McEACHERN MUSIC BUILDING

P PANZER SCHOOL CENTER—GYMNASIUM and SWIMMING POOL
R DROP-IN CENTER
S SPRAGUE LIBRARY
V MALLORY HALL
W RICHARDSON HALL—MATHEMATICAL & NATURAL SCIENCES
Y CONTINUING EDUCATION
AA CHAPIN HALL—PROFESSIONAL STUDIES CAMPUS POLICE
BB RUSS HALL—SOCIAL SCIENCES
CC FREEMAN HALL—STUDENT HOUSING
DD STONE HALL—STUDENT HOUSING
EE WEBSTER HALL—STUDENT HOUSING
FF BOHN HALL—STUDENT HOUSING
GG MAINTENANCE BUILDING

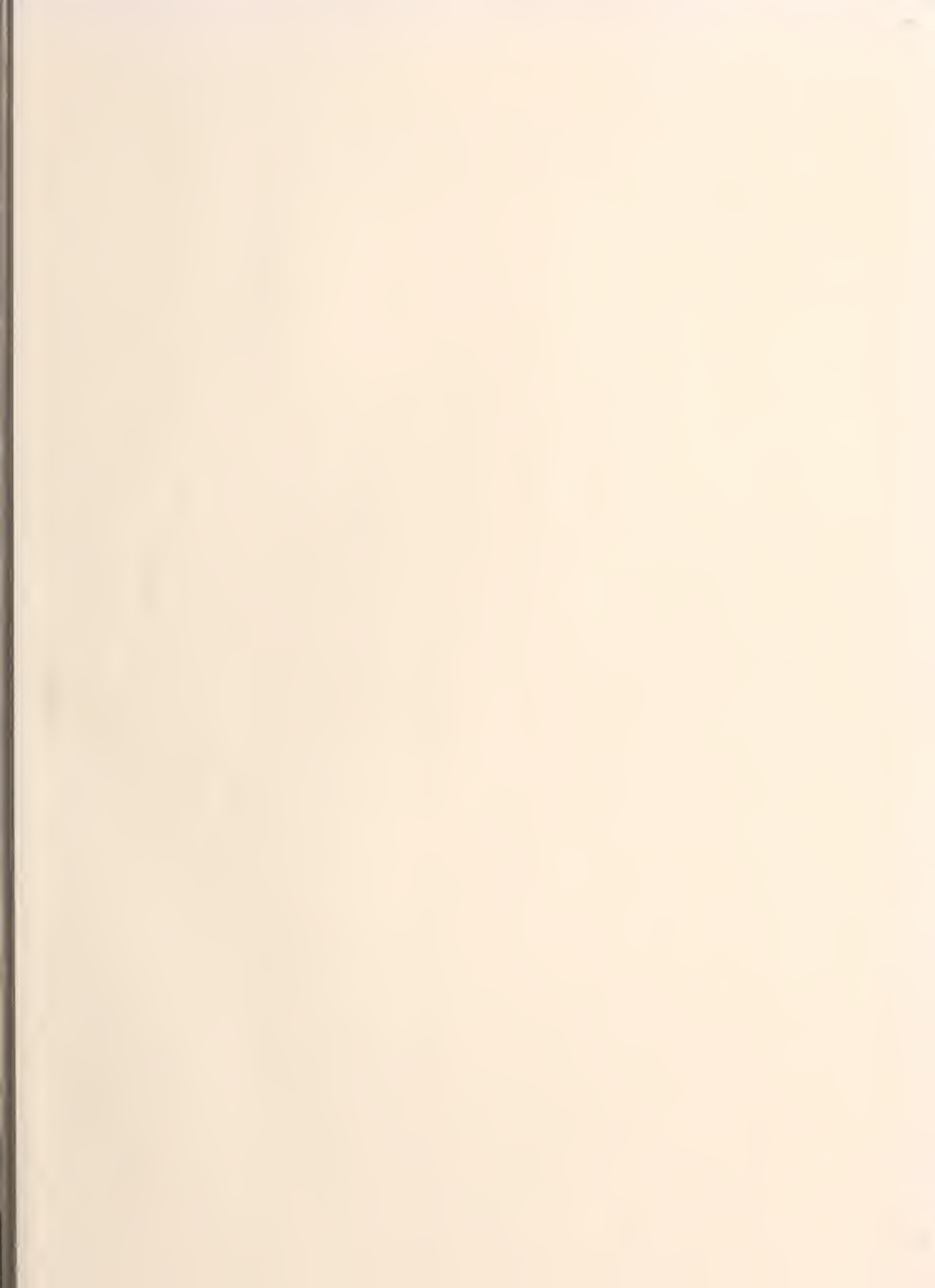
HH POWER AND ENERGY LABORATORY
JJ HEATING PLANT
LL BLANTON HALL—STUDENT HOUSING & HEALTH CENTER
MM PSYCHO-EDUCATIONAL SCHOOL
RR CLOVE RD. APTS. (100)—STUDENT HOUSING
SS CLOVE RD. APTS. (200)—STUDENT HOUSING
TT CLOVE RD. APTS. (330)—STUDENT HOUSING
UU VAN REYPER/BOND HOUSE
VV PHILOSOPHY FOR CHILDREN
XX RECREATION BUILDING
YY FACULTY/STUDENT COOPERATIVE INC.

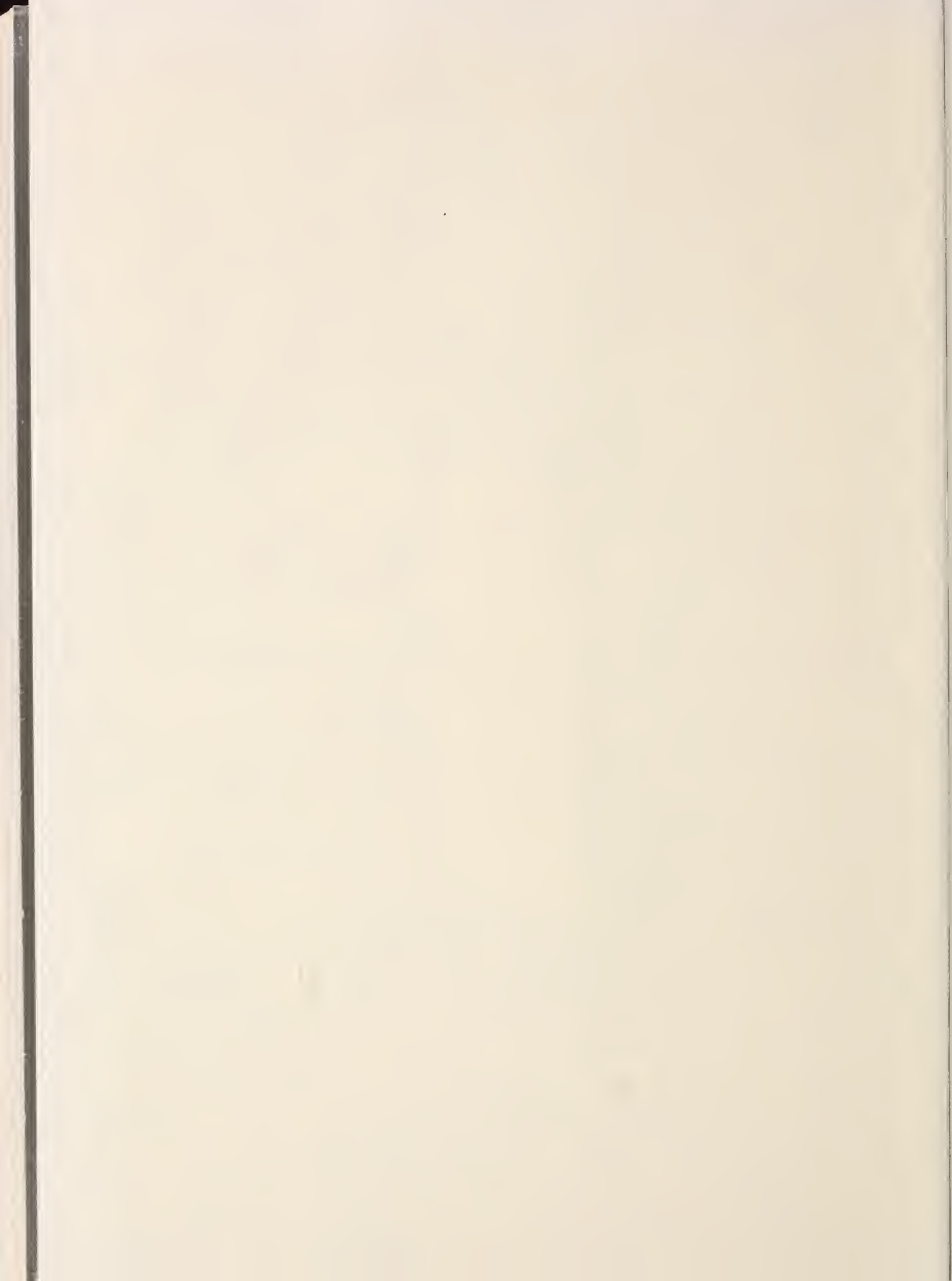


Office of Admissions
Montclair State College
Upper Montclair, N.J. 07043

552716
PAMELA
THORNTON
SPRAGUE LIBRARY

FOURTH CLASS BOOK RATE







MONTCLAIR STATE UNIVERSITY



3 3000 01007 116 6

465438833

REF LD 3780 .N3 A12

Montclair State College
undergraduate catalogs



